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HUNTERS POINT
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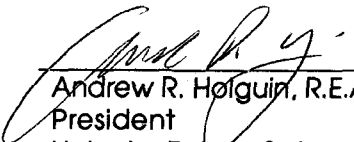
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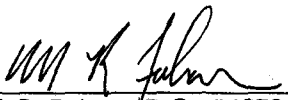
**CANDLESTICK POINT STATE RECREATION AREA
SOIL AND WATER QUALITY INVESTIGATION REPORT**

MARCH 13, 1990

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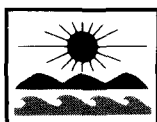


TABLE OF CONTENTS

| Section | Page |
|---|------|
| 1.0 INTRODUCTION..... | 1 |
| 2.0 BACKGROUND..... | 1 |
| 2.1 Site Description and History | 1 |
| 2.2 Surrounding Area Usage..... | 4 |
| 2.3 General Geology and Hydrogeology..... | 5 |
| 2.3.1 General Geology..... | 5 |
| 2.3.2 Hydrogeology..... | 7 |
| 3.0 SITE ASSESSMENT PROCEDURES..... | 8 |
| 3.1 Soil Assessment..... | 8 |
| 3.1.1 Soil Vapor Survey..... | 8 |
| 3.1.2 Equipment Description..... | 12 |
| 3.1.3 Soil Borings and Canal Sediments | 16 |
| 3.1.3.1 Sampling Procedures..... | 16 |
| 3.1.3.2 Soil and Canal Sediment Sample Results..... | 18 |
| 3.1.3.3 Waste Handling and Disposal Procedures..... | 21 |
| 3.2 Ground Water and Surface Water Assessment..... | 21 |
| 3.2.1 Monitoring Well Installation..... | 23 |
| 3.2.1.1 Ground Water Sample Collection Procedure..... | 23 |
| 3.2.2 Surface Water Sampling Procedures..... | 24 |
| 3.2.2.1 Ground Water and Surface Water Sample Results..... | 24 |
| 3.2.2.2 Disposal of Containerized Ground Water..... | 25 |
| 4.0 SUMMARY OF FINDINGS AND DISCUSSION..... | 25 |
| 4.1 Identify and Characterize Contaminants Present at the Site | 25 |
| 4.2 Identify Potential Environmental Problems Associated with the Creation of the Proposed Wetlands..... | 26 |
| 4.3 Evaluate the Costs Associated with Evacuation and Removal of Soil and Sediment from the Site | 27 |
| 4.4 Evaluate the Overall Feasibility of Establishing a Wetlands Given the Chemical Characteristics of Subsurface Soil and Ground Water at the Site | 27 |
| 5.0 CONCLUSIONS AND RECOMMENDATIONS | 28 |

3.1.2.1 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES...14

3.1.2.2 SOIL VAPOR SURVEY RESULTS.....14



LIST OF TABLES

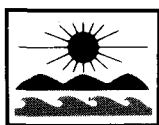
| | |
|--|----|
| TABLE 1 - Suspected On-site Sources and Resultant Contaminants..... | 4 |
| TABLE 2 - Identified Off-site Sources and Resultant Contaminants..... | 4 |
| TABLE 3 - Elevation and Depth of Ground Water | 7 |
| TABLE 4 - Soil Vapor Concentrations (ppm) | 15 |
| TABLE 5 - Soil and Canal Sediment Analytical Results (ppm)..... | 17 |
| TABLE 6 - Ground Water and Surface Water Analytical Results (mg/l) | 19 |

LIST OF FIGURES

| | |
|--|----|
| FIGURE 1 - Site Location Map..... | 2 |
| FIGURE 2 - Plot Plan Showing Historical Shorelines and Surrounding Land Usages | 3 |
| FIGURE 3 - Cross Section A-B..... | 6 |
| FIGURE 4 - Ground Water Piezometric Surface Contour Map..... | 9 |
| FIGURE 5- Soil Vapor Sampling Locations | 10 |
| FIGURE 6 - Soil Vapor Concentrations (ppm Hexane) | 11 |
| FIGURE 7 - Soil Vapor Survey..... | 13 |
| FIGURE 8 - Soil and Ground Water Sampling Locations..... | 22 |

LIST OF ATTACHMENTS

| |
|--|
| ATTACHMENT 1 - List of References |
| ATTACHMENT 2 - Logs of Soil Borings and Monitoring Wells |
| ATTACHMENT 3 - Gas Chromatograph Records and Data |
| ATTACHMENT 4 - Laboratory Analysis Results |
| ATTACHMENT 5 Ground Water Well Construction Details |
| ATTACHMENT 6 - Water Sample Logs |



1.0 INTRODUCTION

This report documents the procedures and results of the soil and water quality investigation performed by Holguin, Fahan & Associates, Inc., (HFA) to characterize a 34-acre site located along the Yosemite Canal, in San Francisco, California (see Figure 1). The work was commissioned by the Department of Parks and Recreation (DPR) in a Request for Proposal (RFP) entitled "Soil and Water Quality Investigation - Candlestick Point State Recreation Area (SRA)" dated April 1989. The work was conducted in accordance with HFA's work plan that was submitted to the DPR on August 24, 1989.

The purpose of the soil and ground water investigation was to provide preliminary data in order to identify and characterize potential environmental problems so that the suitability of the site as a proposed wetland nature area could be assessed. Creation of the desired wetland wildlife habitat will involve excavating and removing some of the existing fill, dredging the Yosemite Canal, and stabilizing the embankment along the southern side of the Yosemite Canal. Figure 2 shows the current and proposed shore lines of the Yosemite Canal as well as the area currently containing artificial fill.

2.0 BACKGROUND

2.1 SITE DESCRIPTION AND HISTORY

The proposed 34-acre nature area is located on the eastern shore of the San Francisco Peninsula in the Candlestick Point SRA, San Francisco, California. The property is bounded by Thomas Avenue, the Griffith Street Pump Station and the Hunters Point Naval Shipyard to the north; Yosemite Avenue and Candlestick Park to the south; the San Francisco Bay to the east; and Hawes Street, a railroad right of way, and commercial/industrial businesses to the west. The site is relatively flat and has an elevation ranging between zero and 10 feet above mean sea level. The southern portion of the site is bisected by the Yosemite Canal, which opens into the San Francisco Bay. Water levels within the canal are influenced by tidal action and water depths vary between zero and approximately 10 feet in depth.

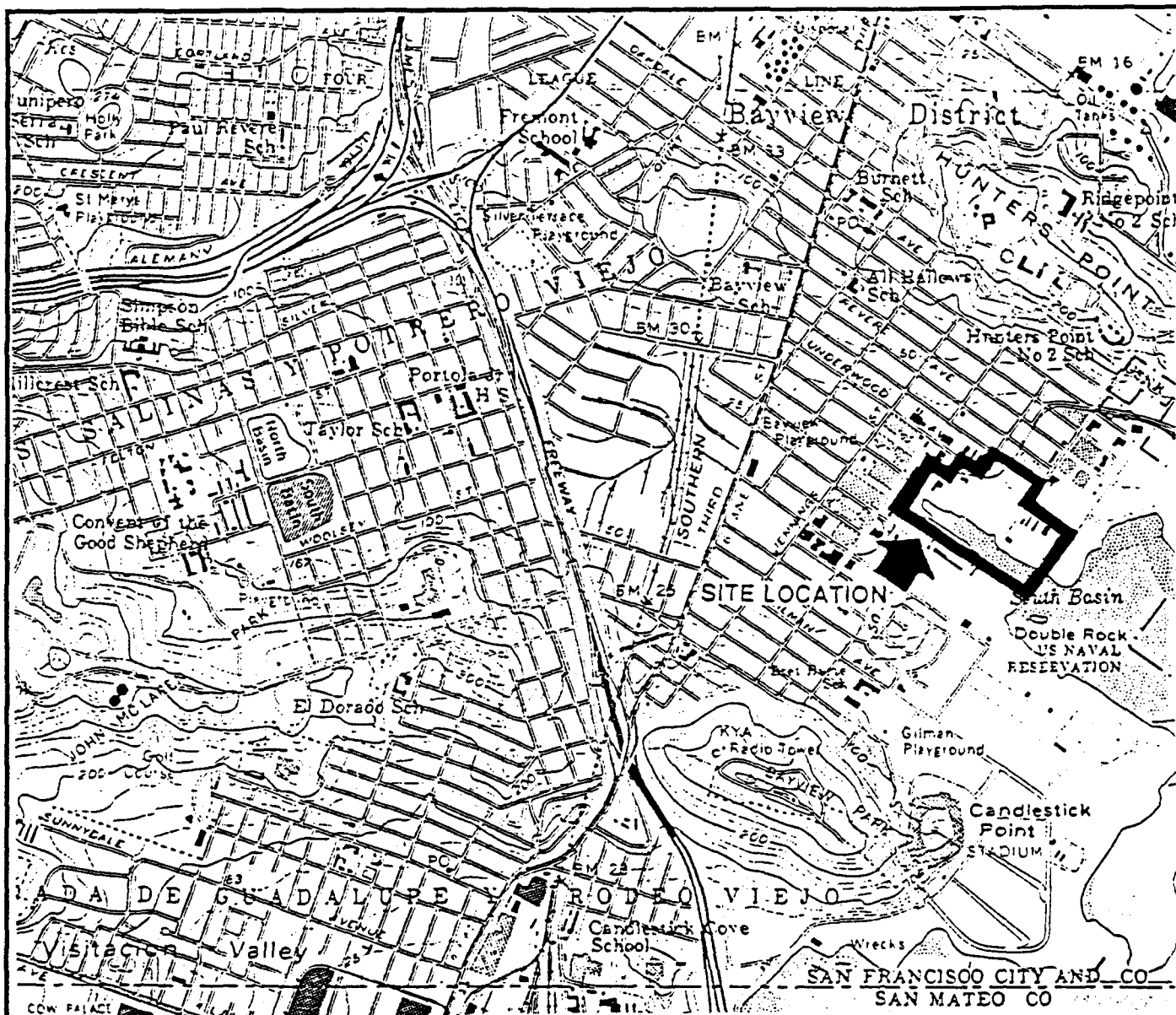
Both the proposed nature area and its surroundings have been used for industrial purposes for at least 40 to 50 years and soil and ground water within the area is known to have been impacted by these usages. Potential sources of on-site contamination include: underground fuel storage tanks; petroleum and heavy metal contamination from automobile salvage operations; and contamination from off-site sources (see Table 1 and Figure 2). The known off-site sources of contamination include: underground tanks; the indiscriminate dumping of household and industrial waste; former and present automobile salvage yards; plating shops; furniture refinishing facilities; a tannery; a drum recycling facility; and several lumber yards (see Table 2 and Figure 2).



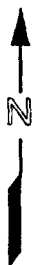
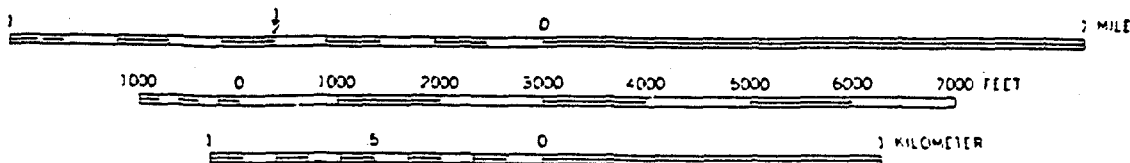
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Department of Parks and Recreation
Candlestick Point State Recreation Area
March 13, 1990 - Page 2



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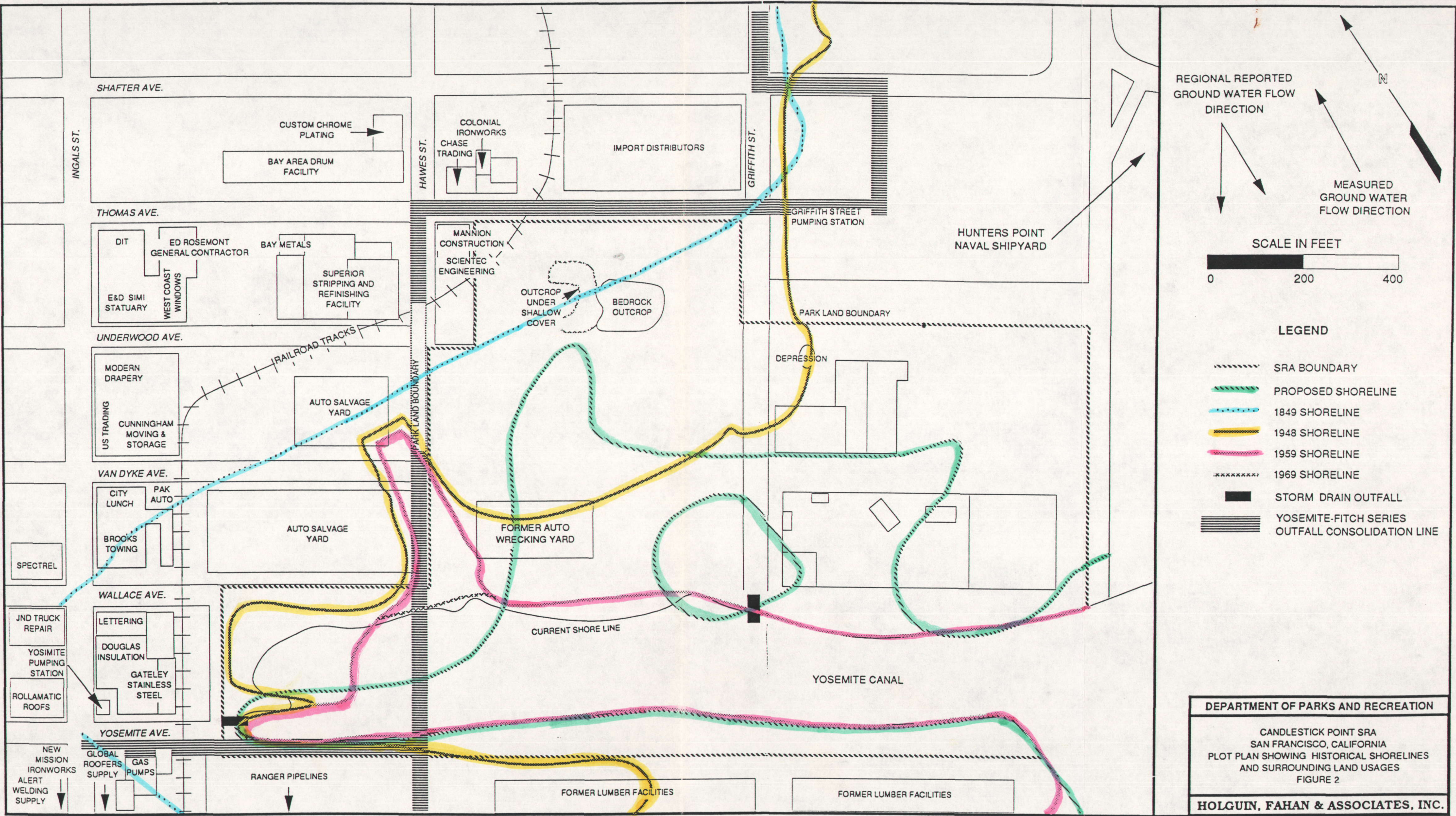


CONTOUR INTERVAL 25 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUM IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 4 FEET IN PACIFIC OCEAN
AND 5 FEET IN SAN FRANCISCO BAY

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CANDLESTICK POINT SRA
SAN FRANCISCO, CALIFORNIA
SITE LOCATION MAP
FIGURE 1

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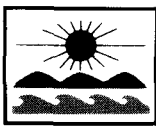


TABLE 1.
SUSPECTED ON-SITE SOURCES AND RESULTANT CONTAMINANTS

| FUEL STORAGE TANKS | AUTOMOTIVE DISMANTLING AND REPAIR | UNKNOWN SOURCES |
|------------------------------|--|--|
| Petroleum Hydrocarbons, Lead | Petroleum Hydrocarbons, Lead, Other Organic and Inorganic Contaminants | Silicon Tetrachloride, PCB's, Solvents, Lead and Other Metals, Acids |

TABLE 2.
IDENTIFIED OFF-SITE SOURCES AND RESULTANT CONTAMINANTS

| UPGRADIENT TANNERY* | WOOD TREATMENT | BAY AREA DRUM | OTHER |
|--|---|--|---------------------------------|
| Calcium Sulfide, Chromium Salts, Aluminum Salts, Acid, Sulfonated Phenols, Phenols, Formaldehyde | Copper, Chromium, Arsenic, Mercury, Formalin, Creosote, Chlorinated Phenols | Lead, Pesticides, PCB's, Oil & Grease, Vinyl Chloride, TCE, Methylene Chloride | Solvents, Acids, Metals, Others |

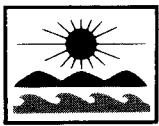
*Not shown in Figure 2.

Levine-Fricke conducted a historical aerial photographic and records review of the site and surrounding area in 1988 (see Attachment 1 for a list of references). This study showed that the proposed nature area and surrounding land are located on reclaimed marshland and that much of the area once lay below the San Francisco Bay. The area has been progressively filled to accommodate expanding light industry in the area, and the shoreline has encroached eastward over the past century (see Figure 2). Levine-Fricke's assessment included an aerial photographic review of the years 1935, 1948, 1959, 1969, 1977 and 1985.

2.2 SURROUNDING AREA USAGE

The site is located in an area of reclaimed marshland along the western shores of the San Francisco Bay in an area that was used for dairy farming up until 1935. Since that time, light industry has been steadily increasing in density. Filling of the marshland began in the late 1930's or early 1940's.

A number of light industrial businesses have been operated in the past, and are currently operating in the immediate area (see Figure 2 for business locations). These include: metal fabricators; chrome platers; automobile salvage and wrecking yards; a drum recycling facility; lumber facilities; stripping and refinishing facilities; and other miscellaneous small manufacturing and industrial businesses. Additionally, a large sewer system, the Yosemite-Fitch sewer consolidation project, was recently completed through and adjacent to the northern part of the site. This project involves a 96-inch diameter sewer pipe and 17 to 40 foot wide box culverts that run under Yosemite Avenue from Ingles Street to Hawes Street, cross the



Yosemite Canal and run parallel to Hawes Street. The culverts were placed in trenches that were 17 to 30 feet deep.

Bay Area Drum, Inc., operated a drum recycling facility from the 1940's to 1987 on the corner of Thomas Avenue and Hawes Street. The facility handled numerous types of hazardous materials and in 1987 was closed and placed on the California Superfund list. Concentrations of lead, pesticides and PCB's above the California Department of Health Services' (DHS) total threshold limit concentrations (TTL) were found in soil samples collected on site and from the surrounding lots during investigations by CH2M Hill in July 1987 (Levine-Fricke, 1988). In addition, oil, grease and numerous other organic compounds were found in soil samples from the vicinity of the site. Ground water samples from downgradient monitoring wells exceeded DHS drinking water action levels for chlorine, PCB's, vinyl chloride, methylene chloride and TCE (CH2M Hill, 1987).

Hunters Point Naval Station, located 2,000 feet east-northeast, is also undergoing investigations for possible soil, ground water and surface water contamination.

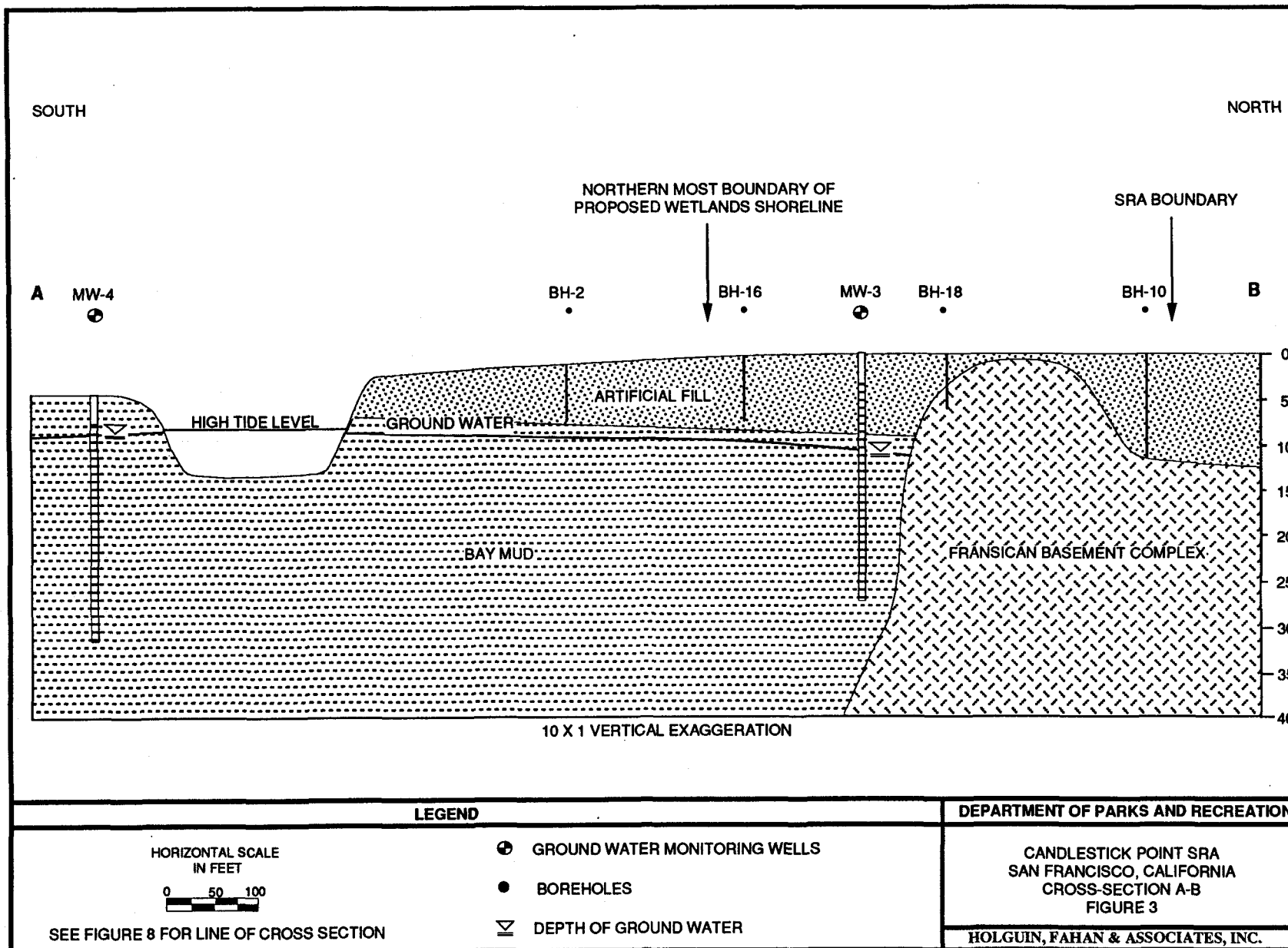
Other potential contaminant sources in the area include: indiscriminate dumping of household refuse; automobile parts; paint and paint thinner; building materials, such as brick, concrete and wood along the railroad tracks at the termination of Van Dyke, Wallace and Yosemite Avenues; and several drums containing one to two gallons of silicon tetrachloride that were removed in early 1987 by the City of San Francisco from the lot west of Griffith Street between Underwood and Thomas Avenues. Park Rangers also reported the presence of underground storage tanks in the lots west of Griffith Street between Underwood and Shafter Avenues.

2.3 GENERAL GEOLOGY AND HYDROGEOLOGY

2.3.1 General Geology

The near surface materials over the majority of the site are composed of fill containing a mixture of silty and clayey sand with various amounts of gravel, wood, brick, rock and concrete debris. The fill is underlain by Bay Mud, Bayside Sand and bedrock of the Franciscan Formation. The Bay Mud is composed of gray to greenish-gray clay and silty clay, is soft to medium-stiff in consistency, and has localized layers of sand, peat and organic clay. This unit was encountered in most monitoring wells installed during this survey at depths below 10 feet (see Attachment 2 for soil boring and monitoring well logs, and Figure 3 for the geologic cross-section).

Underlying the Bay Mud is a sand unit referred to as Bayside Sand (Dames and Moore, 1988). This is a dense, clean to clayey sand that reaches a maximum thickness of 70 feet in the vicinity of the site. This unit was not encountered during this study.

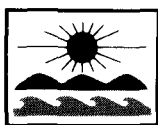


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Department of Parks and Recreation
Candlestick Point State Recreation Area
March 13, 1990 - Page 6



The area is underlain by bedrock of the Franciscan assemblage. The Franciscan is composed of altered volcanics, sandstone, siltstone and shale within a structurally disorganized melange formation. Franciscan bedrock crops out in the northern portion of the site in a topographical high located south of Thomas Avenue between Griffith and Hawes Streets (see Figure 2). This bedrock outcrop is composed of metamorphosed volcanic rock (greenstone), which was the only bedrock lithology encountered during this investigation. Greenstone "knockers" such as this generally occur as isolated blocks within sandstones and shales of the Franciscan Formation and the areal distribution of this type of rock below the fill material is not known. Angular greenstone rock fragments measuring a few inches to a foot in diameter make up a large component of the fill material that is scattered over the northern part of the site. These rock fragments appear to have originated from the bedrock outcrop, possibly during grading activities at the site.

2.3.2 Hydrogeology

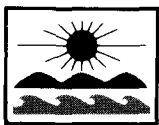
Ground water in the area has been reported at depths between five and 16 feet below ground level in nearby monitoring wells (Dames and Moore, 1988 and Levine-Fricke, 1988). Ground water within monitoring wells installed during this study was encountered at depths of between four and 15 feet below ground level (see Table 3).

In order to determine ground water elevations and the direction of ground water flow at the site, all monitoring well elevations were surveyed to an accuracy of ± 0.01 foot and a datum was established at the high tide water mark measured on the Griffith Street storm drain outfall located on the northern side of the Yosemite Canal. Water levels within each monitoring well were then measured to an accuracy of ± 0.01 foot using electronic measuring. Ground water depths were then subtracted from the established datum and ground water elevations for the area were calculated (see Table 3).

TABLE 3.
ELEVATION AND DEPTH OF GROUND WATER

| WELL NUMBER | FLOATING PRODUCT | WELL ELEVATION (feet above high tide level) | DEPTH TO GROUND WATER | ELEVATION OF GROUND WATER |
|-------------|------------------|--|-----------------------|---------------------------|
| MW-1 | NONE | 7.25 | 9.14 | -1.89 |
| MW-2 | NONE | 7.52 | 15.03 | -7.51 |
| MW-3 | NONE | 7.93 | 10.32 | -2.39 |
| MW-4 | NONE | 4.04 | 4.66 | -0.62 |
| MW-5 | NONE | 7.51 | 6.97 | -0.54 |
| MW-6 | NONE | 7.51 | 6.46 | -1.05 |

Elevations relative to the high tide mark on the Griffith Street storm drain. The mark was 6.0 feet below the top of the storm drain at street level. Water levels were measured on November 25, 1989, between 10:50 and 11:30 a.m. High tide at Hunters Point Naval Shipyard for this date was +6.8 feet at 9:24 a.m. and low tide was 0.0 feet at 16:24.



The direction of ground water flow was determined to be to the north in the area located north of the Yosemite canal as calculated from the data shown in Table 3. This ground water flow direction is opposite of the regional ground water flow direction reported by Levine-Fricke in its March 3, 1988, report. The local ground water flow direction is believed to be greatly influenced by tidal fluctuations and may vary as much as 180 degrees, depending on tidal levels.

A potentiometric contour map of the top of the water table is shown in Figure 4. As can be seen from the map, the calculated ground water flow direction and gradient is largely influenced by the exceptionally low ground water elevation measured from monitoring well MW-2. Ground water within this well was five feet lower than within any other well on site. This may be due to a depressed water table associated with the newly constructed sewer outfall facilities located directly east of the well along Hawes Street. The ground water flow direction and gradient shown in Figure 4 may not therefore be indicative of flow directions and gradients in portions of the site not within the zone of influence of the sewer outfall facilities.

Drainage of surface runoff in paved areas surrounding the site is generally channeled into municipal storm drains. Surficial drainage in non-paved areas located on site is expected to flow to the south into the Yosemite Canal and/or the San Francisco Bay.

Ground water within the City of San Francisco is not currently used for any beneficial purposes due to its poor quality and high concentration of total dissolved solids.

3.0 SITE ASSESSMENT PROCEDURES

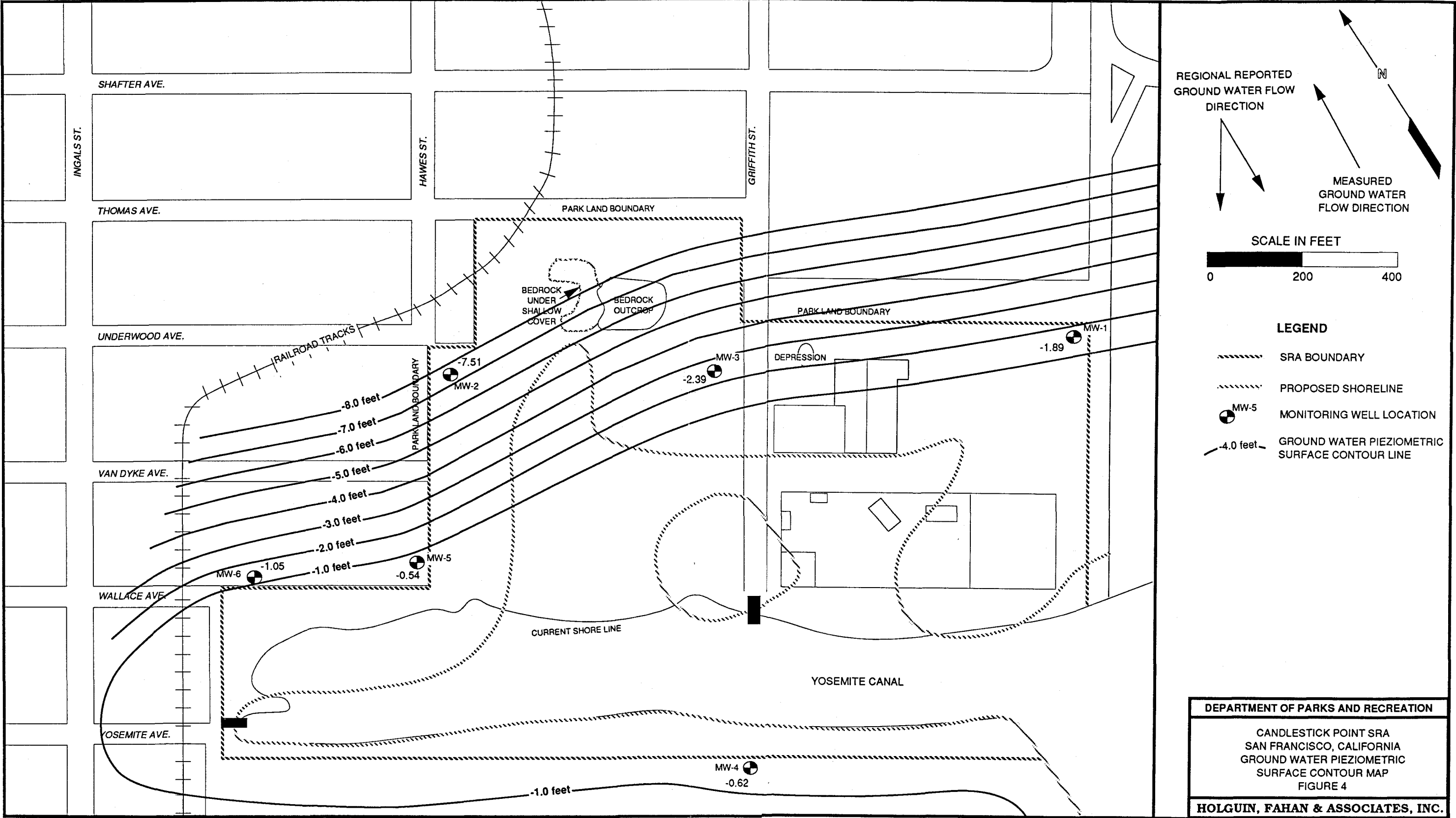
Site assessment procedures consisted of an area wide soil vapor survey, the drilling and sampling of 20 shallow boreholes, the installation and sampling of six ground water monitoring wells, sediment sampling from the Yosemite Canal, and limited surface water sampling.

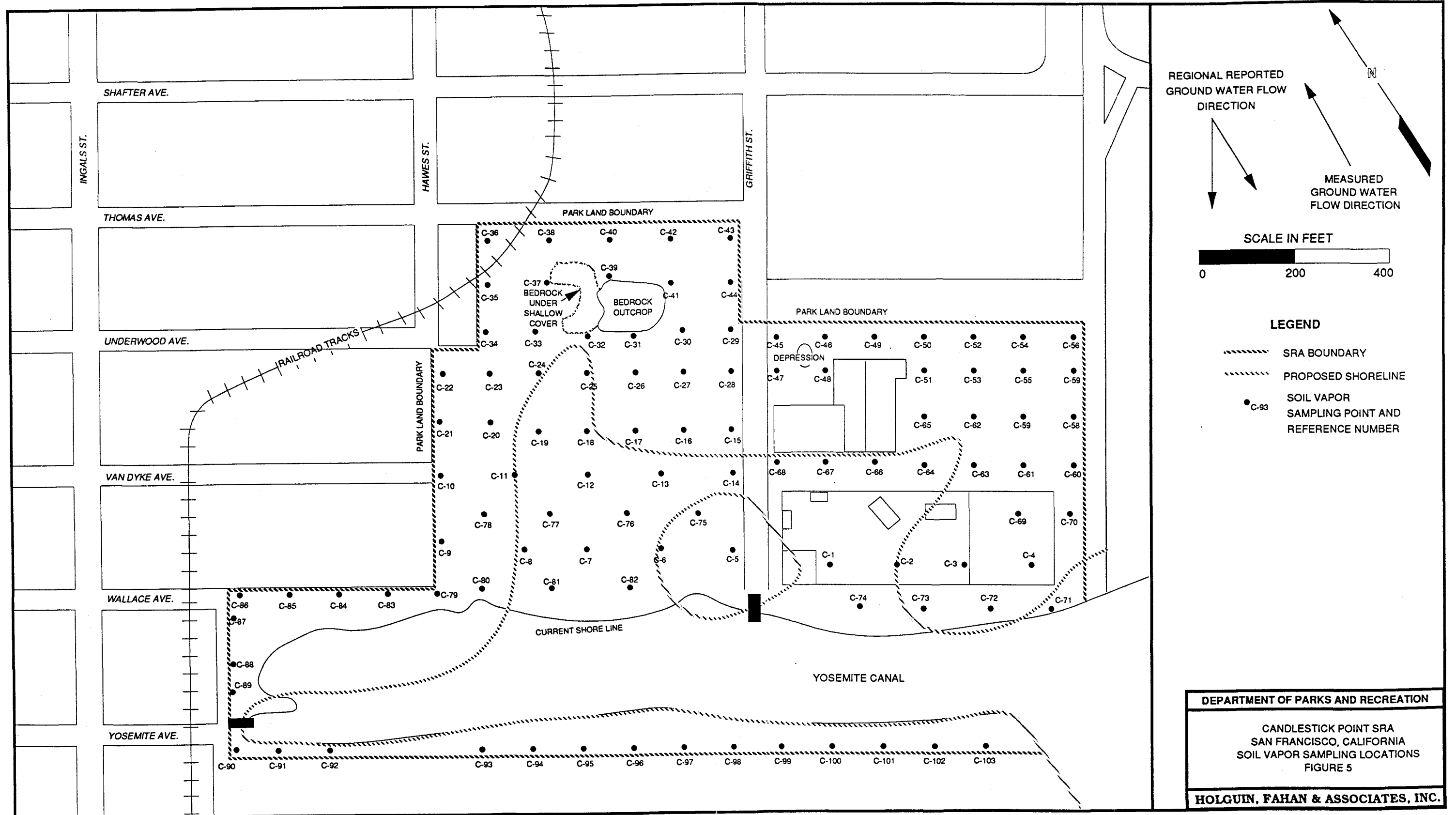
3.1 SOIL ASSESSMENT

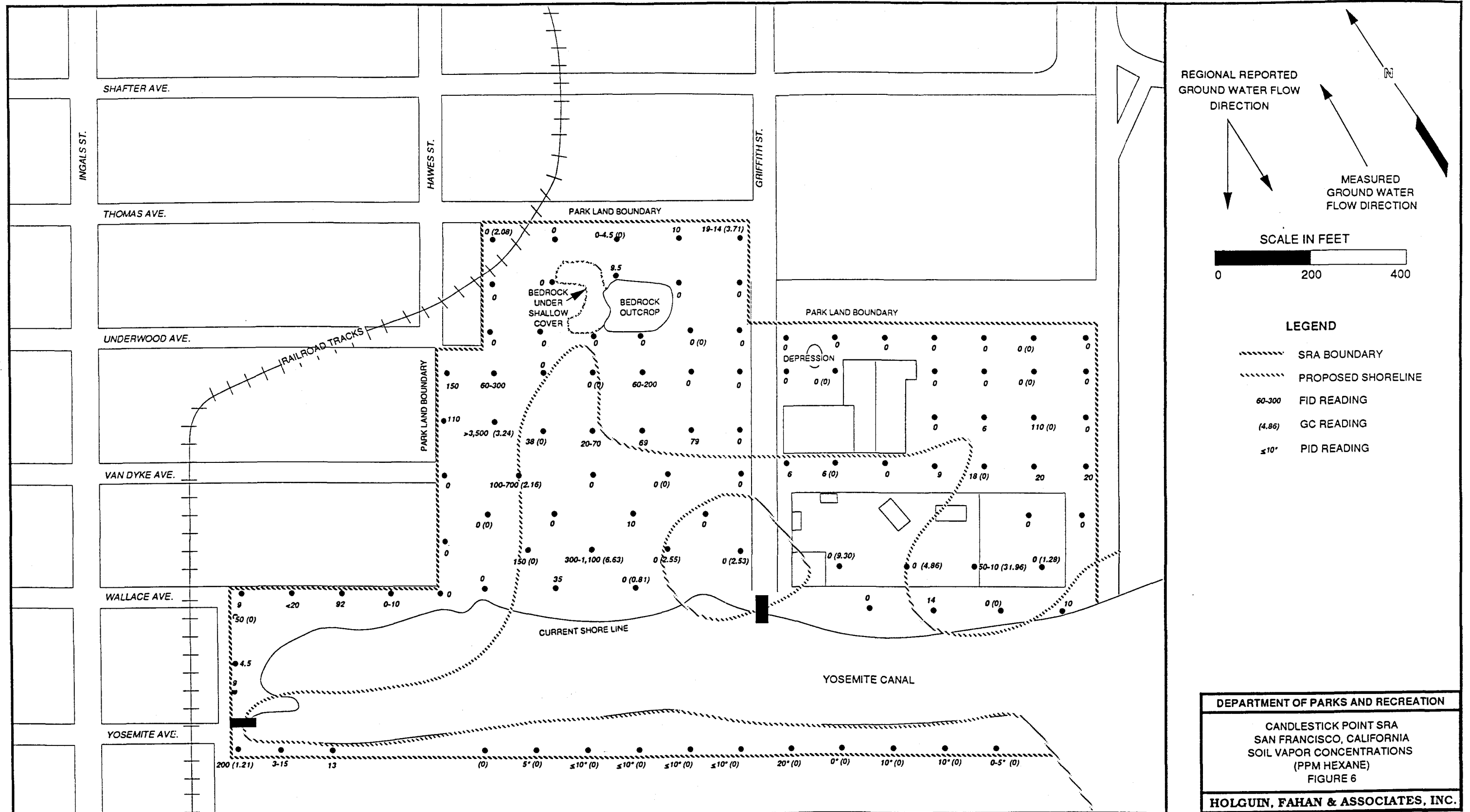
Soils on the site were characterized by soil vapor surveying, soil sampling and analyses. These are described in more detail below.

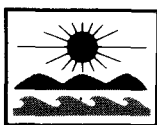
3.1.1 Soil Vapor Survey

The soil vapor survey consisted of 103 individual sampling points located in a regular grid pattern throughout the nature area (see Figure 5). At each point, the soil vapors were tested with a Photovac™ or Hnu™ photoionization detector (PID); a Summit Interests™ flame ionization detector (FID); or a Photovac™ 10S50 gas chromatograph (GC) equipped with a wide-bore capillary column and an internal oven for temperature control (see Figure 6). These instruments









are capable of detecting volatile organic vapors in subsurface soils at the part per million (ppm) level.

The soil vapors were sampled by driving a 5/8-inch diameter stainless steel probe into the subsurface to depths of three to six feet. The probe was withdrawn leaving a cavity in the subsurface. A short (12 inch long) hollow, soil vapor, sampling probe was then inserted within the cavity and the vapors were extracted through the probe by means of a vacuum pump. Extracted vapors were then passed through either an FID or PID where the detector measured the concentration of the organic vapors in the sample. The FID was the primary analytical instrument used for the survey, however, the Photovac™ TIP 1 PID was also used to analyze vapor samples C-94 to C-103 because the FID malfunctioned during the final stages of the project. Additionally, 38 percent of the samples were analyzed using the GC in order to check and verify the FID and PID analyses (see Figure 7 for a diagram of the soil vapor sampling technique). Field blanks and calibration standards were run at the beginning of each day and all instruments were recalibrated periodically during the day.

3.1.2 Equipment Description

The following pieces of equipment were utilized during this survey and sample collection:

- Flame Ionization Detector: Summit Interests™ Model 1000;
- Photoionization Detector Photovac™ TIP1 and Hnu™ Model PI101;
- Gas Chromatograph: Photovac™ Model 10S50; and
- Soil Probes: Hollow stainless steel, 5/8-inch diameter;
- Tubing: All Teflon™ tubing and seals; and
- Column: Wide-bore capillary column, heated and temperature regulated.

The FID is produced by Summit Interests of Colorado Springs, Colorado. Rechargeable batteries for up to eight hours of operation are built-in, as well as a lecture bottle of high purity hydrogen gas supplying enough carrier gas for up to 10 hours of operation. The FID is calibrated by measuring standard gas(es) and programming the library within the instrument. The injection of calibration gas(es) will be made at the beginning of each sampling day and after every five to eight sample runs. The FID contains a built-in interrogator that will quantify the ppm of a vapor when compared to known concentrations of standards.

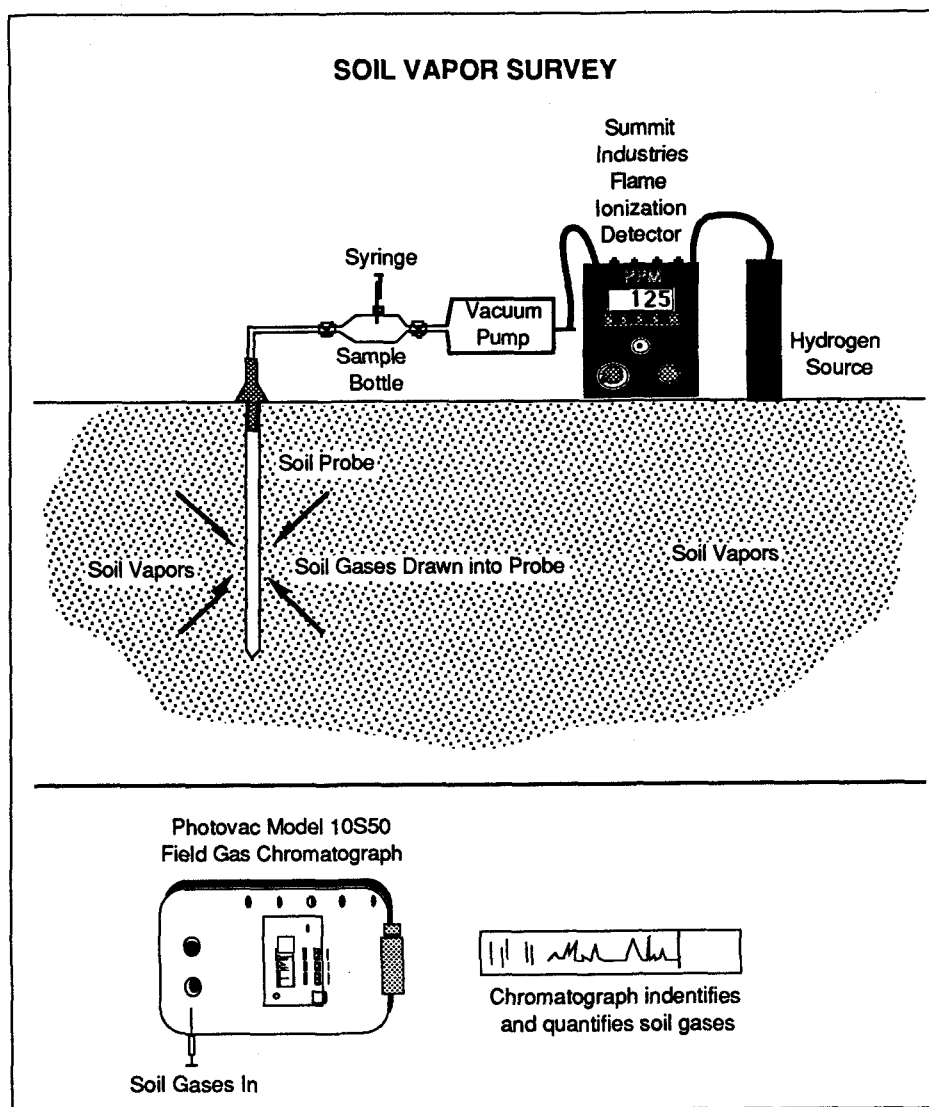
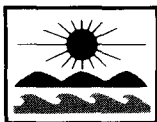
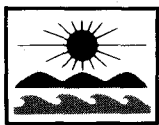


FIGURE 7.

The PID is produced by Photovac, Inc., of Thornhill, Ontario. The PID has built-in rechargeable batteries for up to four hours of operation with attachable battery packs supplying up to eight additional hours of operation. The PID is calibrated by measuring standard gas(es) of known concentrations. The instrument calibration was made at the beginning of each sampling day and after every five to eight sample runs.

The GC is produced by Photovac, Inc., of Thornhill, Ontario. It is packaged in a rugged, anodized aluminum case with a total weight of 11 kilograms. Rechargeable batteries for up to eight hours of operation are built-in, as well as a lecture bottle of high purity air supplying enough carrier gas for up to 10 hours of operation. The GC is equipped with a heated and temperature-



regulated wide-bore capillary column and a photoionization detector (PID) and contains a built-in interrogator and four libraries holding up to 25 compounds per library and enabling a chromatograph to be interpreted qualitatively and quantitatively when compared to known concentrations of standards. This instrument has the capability of separating compounds and quantifying them in the field with a sensitivity down to levels as low as 0.1 part per billion (ppb) for a one-milliliter sample volume and with a 4:1 signal to noise ratio. New peaks will be identified using their relationship to the retention times of the reference peaks. The GC is calibrated by injecting 12 microliters of standard gas(es) and programming the library within the instrument. The 12-microliter injection of calibration gas(es) was made at the beginning of each sampling day and after every five to eight sample runs.

^{2.1}
3.1.3^{2.1} Quality Assurance/Quality Control Procedures

Quality Control/Quality Assurance procedures consisted of the following:

- Calibration: Beginning of each day and every five to eight analyses thereafter;
- Field Blanks: At least daily and thereafter as needed; and

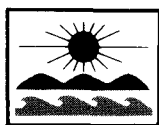
Carrier gas and soil vapor sampler system blanks were run at the beginning of the day and after every five to eight soil vapor samples to identify any latent background contamination in the GC or soil vapor sampler. Field blanks were run to check for contamination within the sampling equipment at least once daily and as often as thought needed by the operator.

Each soil vapor analyses was documented within a field logbook, and on a soil vapor monitoring log. Strip chart chromatograms were produced for each sample analyzed by the GC. The GC strip charts are maintained within the project file at HFA's corporate office. The GC data generated from the soil vapor survey is included in Attachment 3.

Additionally, the stainless steel probe was decontaminated between sampling points to prevent cross-contamination. This procedure consisted of an Alconox detergent wash; tap water rinse; and two distilled, deionized water rinses. The vapor sampling flask was purged with ambient air between samples to flush out contaminants from the previous analysis.

^{2.2}
3.1.4^{2.2} Soil Vapor Survey Results

Because vapors at the site were of an unknown composition, specific compounds or contaminants were not identified during the survey. Vapor concentrations are therefore reported as ppm referenced to a 100 ppm hexane standard. Soil vapor sampling locations are shown on Figure 5 and soil vapor concentrations are shown on Figure 6 and are listed in Table 4). The GC data reduction calculations are included in Attachment 3.



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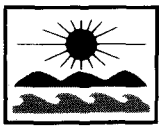
Department of Parks and Recreation
Candlestick Point State Recreation Area
March 13, 1990 - Page 15

TABLE 4.
SOIL VAPOR CONCENTRATIONS
(ppm)

| SOIL VAPOR SAMPLE NUMBER | INSTRUMENT AND CONCENTRATION | | |
|-----------------------------|------------------------------|-----|-------|
| | FID | PID | GC |
| C-1 | 0 | - | 9.30 |
| C-2 | 0 | - | 4.86 |
| C-3 | 10-50 | - | 31.96 |
| C-4 | 0 | - | 1.28 |
| C-5 | 0 | - | 2.53 |
| C-6 | 0 | - | 2.55 |
| C-7 | 300-1100 | - | 6.64 |
| C-8 | 150 | - | 0 |
| C-9 | 0 | - | - |
| C-10 | 0 | - | - |
| C-11 | 100-700 | - | 2.16 |
| C-12 | 0 | - | - |
| C-13 | 0 | - | 0 |
| C-14 | 0 | - | - |
| C-15 | 0 | - | - |
| C-16 | 79 | - | - |
| C-17 | 69 | - | - |
| C-18 | 20-70 | - | - |
| C-19 | 38 | - | 0 |
| C-20 | >3500 | - | 3.24 |
| C-21 | 110 | - | - |
| C-22 | 150 | - | - |
| C-23 | 60-300 | - | - |
| C-24 | 0 | - | - |
| C-25 | 0 | - | 0 |
| C-26 | 60-200 | - | - |
| C-27 | 0 | - | - |
| C-28 | 0 | - | - |
| C-29 | 0 | - | - |
| C-30 | 0 | - | 0 |
| C-31 | 0 | - | - |
| C-32 | 0 | - | - |
| C-33 | 0 | - | - |
| C-34 | 0 | - | - |
| C-35 | 0 | - | - |
| C-36 | 0 | - | 2.08 |
| C-37 | 0 | - | - |
| C-38 | 0 | - | - |
| C-39 | 9.5 | - | - |
| C-40 | 0-4.5 | - | 0 |
| C-41 | 0 | - | - |
| C-42 | 10 | - | - |
| C-43 | 14-19 | - | 3.71 |
| C-44 | 0 | - | - |
| C-45 | 0 | - | - |
| C-46 | 0 | - | - |
| C-47 | 0 | - | - |
| C-48 | 0 | - | 0 |
| C-49 | 0 | - | - |
| C-50 | 0 | - | - |
| C-51 | 0 | - | - |
| C-52 | 0 | - | - |

| SOIL VAPOR SAMPLE NUMBER | INSTRUMENT AND CONCENTRATION | | |
|-----------------------------|------------------------------|-----|------|
| | FID | PID | GC |
| C-53 | 0 | - | - |
| C-54 | 0 | - | 0 |
| C-55 | 50 | - | 0 |
| C-56 | 0 | - | - |
| C-57 | 0 | - | - |
| C-58 | 0 | - | - |
| C-59 | 110 | - | 0 |
| C-60 | 20 | - | - |
| C-61 | 20 | - | - |
| C-62 | 6 | - | - |
| C-63 | 18 | - | 0 |
| C-64 | 9 | - | - |
| C-65 | 0 | - | - |
| C-66 | 0 | - | - |
| C-67 | 6 | - | 0 |
| C-68 | 6 | - | - |
| C-69 | 0 | - | - |
| C-70 | 0 | - | - |
| C-71 | 10 | - | - |
| C-72 | 0 | - | 0 |
| C-73 | 14 | - | - |
| C-74 | 0 | - | - |
| C-75 | 0 | - | - |
| C-76 | 10 | - | - |
| C-77 | 0 | - | - |
| C-78 | 0 | - | 0 |
| C-79 | - | - | - |
| C-80 | 0 | - | - |
| C-81 | 35 | - | - |
| C-82 | 0 | - | 0 |
| C-83 | 0-10 | - | - |
| C-84 | 92 | - | - |
| C-85 | <20 | - | - |
| C-86 | 9 | - | - |
| C-87 | 50 | - | 0 |
| C-88 | 4.5 | - | - |
| C-89 | 9 | - | - |
| C-90 | 200 | - | 1.21 |
| C-91 | 3-15 | - | - |
| C-92 | 13 | - | - |
| C-93 | NR | - | 0 |
| C-94 | - | 5 | 0 |
| C-95 | - | ≤10 | 0 |
| C-96 | - | <10 | 0 |
| C-97 | - | <10 | 0 |
| C-98 | - | ≤10 | 0 |
| C-99 | - | 20 | 0 |
| C-100 | - | 0 | 0 |
| C-101 | - | 10 | 0 |
| C-102 | - | 10 | 0 |
| C-103 | - | 0-5 | 0 |

- = Not used; NR = No reading. See Attachment 3 for GC data reduction and fieldlogs. Calibrated to 100 ppm hexane.



The results of the soil vapor survey show volatile organic vapors in the range of zero to 3,500 ppm as determined by FID analyses, and zero to 32 ppm as determined by PID and GC analyses. At locations where both the FID and the GC data were collected, the readings correlated well for locations with low vapor concentrations (those less than 10 ppm) and poorly for locations where high FID concentrations were detected. The high FID readings obtained at these locations are therefore interpreted as organic compounds that are not ionizable by photoionization techniques using ultraviolet light such as the PID and GC utilize. One common organic compound that can be detected using an FID and cannot be detected by a PID is methane, which is a degradation by-product commonly occurring at landfilled sites. Methane is not considered to be an environmental hazard at the concentrations observed during this study (up to 3,500 ppm).

Because the high FID readings are interpreted as methane, they can be discounted as potential contaminant locations where GC analyses showed low or non-detectable volatile organic concentrations (low concentrations are generally considered to be 10 ppm or below on the GC). Location C-3 was the only location that showed elevated volatile vapor concentrations on the GC (see Table 4). A soil sample was subsequently collected and analyzed from this location (see results from sample location BH-11 - Table 5). The results from this soil sample indicate that no volatile contamination as measured by Environmental Protection Agency (EPA) Method 8240 at concentrations above the detection levels for laboratory analytical method were present at location BH-11 (same as soil vapor location C-3).

3.1.3 Soil Borings and Canal Sediments

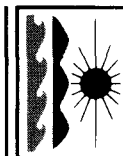
3.1.3.1 Sampling Procedures

Twenty-six soil borings, including six monitoring wells, were drilled to evaluate potential on-site soil contamination at the locations shown in Figure 8. Boreholes were sited at locations that showed high soil vapor concentrations as detected during the soil vapor survey, and were concentrated in the proposed excavation area for the wetlands. Boreholes were drilled using either a three-inch inside diameter hand auger or an eight-inch outside-diameter (OD) truck-mounted hollow-stem flight auger. During the drilling process, soil cuttings were logged by a California State registered geologist or an environmental professional under the supervision of a registered geologist in accordance with the Unified Soil Classification System (USCS). Soil cuttings from all boreholes were monitored for contamination with the use of olfactory senses, visual identification and a PID and this information was included on the logs (see Attachment 2).

Boreholes were drilled to the top of the water table or until penetration was blocked because of subsurface rubble or bedrock (generally at depths from three to 10 feet). Undisturbed soil samples were collected by means of a drive sampler lined with brass or stainless steel sampling rings. Sampling depths were targeted for one and four feet, and just above the water

TABLE 5.
SOIL AND CANAL SEDIMENT ANALYTICAL RESULTS
(ppm)

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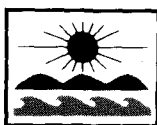
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Department of Parks and Recreation
Candlestick Point State Recreation Area
March 13, 1990 - Page 17

| COMPOUND (ANALYTICAL METHOD) | DETECTION LIMIT | TTLC | STLC | SOIL BORING SAMPLE NUMBERS | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--------------------|------|------|----------------------------|------|------|-------------|--------|--------|-------------|-------------|------------|-----------|-------|--------|--------|-------|-------------|-------------|-------|-------|--------|-------|
| | | | | BH-1 | BH-2 | BH-3 | BH-4 | BH-5,3 | BH-6,2 | BH-7,3,5 | BH-8-1,5,8 | BH-9-1,5,8 | BH-10-1,5 | BH-11 | BH-12 | BH-13 | BH-14 | BH-15 | BH-16 | BH-17 | BH-18 | BH-19 | BH-20 |
| TPH (418.1) | 5 | N/A | N/A | 600 | 190 | 260 | 2500 | 72 | ND | 440 | 310 | 750 | 70 | 6 | 110 | 15 | 850 | 2800 | 1100 | 44 | 300 | 140 | 56 |
| Methylene Chloride (8240)* | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.009* | ND |
| Acetone (8240)* | 0.010 | N/A | N/A | ND | ND | ND | 0.013* | 0.012* | ND | ND | ND | ND | ND | ND | 0.018* | 0.015* | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (8240) | 0.010 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.007 | ND |
| Toluene (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | 0.006 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.7 | ND | ND | ND | ND | ND |
| Xylenes, Total (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.010 | ND | ND | 57 | ND | ND | ND | ND | ND |
| Lead, Total (7420) | 1 | 1000 | 5.0 | 100 | 550 | 230 | 120 | 130 | 160 | 1000 | 1100 | 50 | 64 | 3 | 31 | 280 | 100 | 21 | 35 | 22 | 130 | 130 | 25 |
| Nickel (7520) | 1 | 2000 | 20 | 31 | 520 | 480 | 140 | 16 | 58 | 160 | 170 | 340 | 30 | 25 | 35 | 57 | 66 | 42 | 590 | 130 | 52 | 75 | 1100 |
| Copper (7210) | 1 | 2500 | 25 | 95 | 120 | 330 | 22 | 10 | 20 | 4200 | 82 | 31 | 51 | 4.6 | 13 | 78 | 40 | 19 | 31 | 700 | 31 | 42 | 16 |
| Chromium, Total (7190) | 1 | 2500 | 560 | 17 | 110 | 86 | 33 | 24 | 37 | 35 | 40 | 52 | 45 | 22 | 42 | 33 | 11 | 39 | 170 | 62 | 40 | 47 | 59 |

| COMPOUND (ANALYTICAL METHOD) | DETECTION LIMIT | TTLC | STLC | MONITORING WELL SAMPLE NUMBERS | | | | | | CANAL SEDIMENT SAMPLE NUMBERS | | | | | | | | |
|---------------------------------|--------------------|------|------|--------------------------------|--------|--------|--------|-------|-------|-------------------------------|-------------|------|------|--------|--------|------|--------------|--------------|
| | | | | MW-1 | MW-2 | MW-3 | MW-4,3 | MW-5 | MW-6 | CS-1 | CS-2 | CS-3 | CS-4 | CS-5 | CS-6 | CS-7 | CS-8 | CS-9 |
| TPH (418.1) | 5 | N/A | N/A | 150 | 9 | 30 | 57 | 330 | 570 | 96 | 1200 | 68 | 990 | 660 | 360 | 280 | 960 | 1300 |
| Methylene Chloride (8240)* | 0.005 | N/A | N/A | ND | ND | 0.011* | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetone (8240)* | 0.010 | N/A | N/A | 0.023* | ND | ND | 0.017* | ND | ND | ND | 0.160 | ND | ND | 0.022* | 0.071* | ND | ND | 0.027* |
| Carbon Disulfide (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | 0.052 | ND | ND | ND | ND | ND | 0.009 | 0.009 |
| 2-Butanone (8240) | 0.010 | N/A | N/A | ND | ND | ND | ND | ND | ND | ND | 0.046 | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | ND | 0.005 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene (8240) | 0.005 | N/A | N/A | ND | ND | ND | 0.005 | ND | 0.006 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | 0.010 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Xylenes, Total (8240) | 0.005 | N/A | N/A | ND | ND | ND | ND | 0.069 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Lead, Total (7420) | 1 | 1000 | 5.0 | 280 | ND<5.0 | 30 | 10 | 220 | 49 | 1300 | 420 | 29 | 140 | 470 | 420 | 170 | 200 | 210 |
| Nickel (7520) | 1 | 2000 | 20 | 110 | 70 | 55 | 380 | 52 | 50 | 180 | 37 | 21 | 28 | 56 | 550 | 62 | 35 | 41 |
| Copper (7210) | 1 | 2500 | 25 | 60 | 43 | 630 | 45 | 31 | 29 | 22 | 76 | 17 | 34 | 110 | 140 | 170 | 95 | 74 |
| Chromium, Total (7190) | 1 | 2500 | 560 | 48 | 89 | 46 | 210 | 19 | 39 | 41 | 250 | 27 | 42 | 48 | 680 | 65 | 14 | 90 |

*N/A" = Not applicable for that compound. "ND" = Not detected. "TTLC" = Total threshold limit concentration. "STLC" = Soluble threshold limit concentration. *Common laboratory contaminant - the analytical results for this compound should not be considered reliable unless the concentration in the samples exceeds five times the detection limit. Numbers in bold italics exceed TTLC levels, have 10 times higher than drinking water action levels, or exceed 1,000 ppm for TPH.



table; however, the depths from which samples were actually collected varied and were dependant upon individual borehole conditions (see Attachment 2 for specific sampling depths). Sampling and drilling equipment was decontaminated between boreholes by means of a non-phosphate soap wash, tap water rinse and two deionized water rinses, in accordance with EPA protocol. The hollow-stem auger was decontaminated between each borehole by means of a steam cleaner.

Sampling rings were wrapped in aluminum foil, capped with close-fitting plastic caps, and sealed with Teflon™ tape. All samples were then labeled, recorded on chain-of-custody forms and placed in a cooler filled with dry ice for storage while in the field and during transport to the laboratory. Soil samples from each borehole were composited at the laboratory so that one sample per borehole was analyzed. Sample numbers identify borehole number and sample depths composited within each sample, i.e., BH-8-1,5,8 identifies borehole location 8 with samples composited at depths of one, five, and eight feet. Composite sampling was used to identify potentially contaminated areas from those that showed no contamination. The sampling plan was not designed to identify specific contaminant depths, contaminant concentrations from individual samples or the lateral extent of any contamination that was identified.

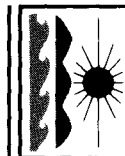
Nine sediment samples were also collected from the Yosemite Canal at a depth of one foot below the sediment surface (see Figure 8 for sample locations). Sediment samples were collected during low tide by means of a hand-held drive sampler loaded with decontaminated stainless steel sampling rings. Upon sample collection, sampling rings were wrapped in aluminum foil, capped, and sealed with Teflon™ tape. All samples were then labeled, recorded on chain-of-custody forms and placed in a cooler filled with dry ice for storage while in the field and during transport to the laboratory.

Samples from the boreholes, monitoring wells and canal sediments were analyzed by a DHS certified laboratory for lead, nickel, copper and chromium, TPH, purgeable organics, including solvents and benzene, toluene, ethylbenzene, and xylene (BTEX) utilizing the EPA Methods listed in Tables 5 and 6.

3.1.3.2 Soil and Canal Sediment Sample Results

A compilation of soil sampling results from the boreholes, monitoring wells and canal sediments is shown in Table 5 with the laboratory reports included as Attachment 4.

Canal sediments showed no significant variation from sample results obtained from the boreholes and monitoring wells. All soil is therefore grouped together and will be discussed as a whole. TPH was detected within all soil samples analyzed and concentrations ranged from a low of six ppm to a high of 2,800 ppm. These results indicate that soils on the site have had wide

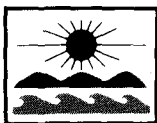


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TABLE 6.
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS
(mg/l)

| COMPOUND (EPA ANALYTICAL METHOD) | DETECTION LIMIT | DRINKING WATER ACTION LEVEL | MONITORING WELL SAMPLE NUMBERS | | | | | | SURFACE WATER SAMPLE NUMBER |
|-------------------------------------|--------------------|--------------------------------|--------------------------------|-------------|-------------|--------------|-------------|-------------|--------------------------------|
| | | | GW-1 | GW-2 | GW-3 | GW-4 | GW-5 | GW-6 | SW-1 |
| Lead (200.7 or 239.2) | 0.05/0.005 | 0.05 | 2.3 | ND | 0.020 | 0.20 | ND | 0.020 | ND |
| Nickel (200.7) | 0.02 | N/A | 0.34 | 0.09 | 0.46 | 0.19 | 0.08 | 0.29 | 0.08 |
| Copper (200.7) | 0.05 | N/A | 0.43 | ND | 0.14 | 0.09 | ND | 0.17 | ND |
| Chromium, Total (200.7 or 218.2) | 0.02/0.01 | 0.05 | 0.18 | 0.013 | 0.34 | 0.09 | 0.019 | 0.06 | 0.021 |
| Arsenic (208.3) | 0.005 | 0.05 | 0.032 | ND | 0.016 | 0.009 | 0.007 | 0.009 | 0.010 |
| Mercury (245.1) | 0.001 | 0.002 | 0.001 | ND | ND | ND | ND | ND | ND |
| TPH (418.1) | 1 | N/A | 2 | ND | ND | ND | 1 | ND | ND |
| Purgeable Organics (624) | N/A | N/A | ND | ND | ND | ND | ND | ND | ND |
| Phenols, Total (420.2) | 0.1 | N/A | ND<0.4 | ND | ND | ND<0.4 | ND | ND | - |
| PCB's & Pesticides (608) | N/A | N/A | ND | ND | ND | ND | ND | ND | - |
| Conductivity (at 25°C) | N/A | N/A | 6.06 (6.48) | 19.8 (>20) | 4.48 (4.19) | >20 (>20) | >20 (>20) | >20 (>20) | N/A |
| pH | N/A | N/A | N/A | 6.62 (7.02) | 6.85 (6.62) | 7.15 (8.06) | 6.73 (6.86) | 6.70 (7.23) | N/A |
| Temperature (°C) | N/A | N/A | 20.3 (18.7) | 17.2 (17.2) | 17.7 (18.0) | 18.59 (18.6) | 16.1 (18.1) | 15.9 (17.3) | N/A |

Drinking water action levels are established for potentially harmful substances to set concentration limits for long term human consumption. - = Not analyzed. ND = Not detected. Concentrations in bold italics are above drinking water action levels. Ground water sample numbers correspond to monitoring well locations. Conductivity readings = First reading (Last reading). See Attachment 4 for laboratory analyses report dated November 15, 1989.

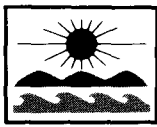


spread exposure to petroleum contamination. The contaminant is probably heavy petroleum oils (possibly waste oil associated with automobile salvage yards) because little or no volatile contaminants were detected during the soil vapor survey, and volatile organics analyses from the soil samples also showed very low or non-detectable concentrations in most cases as determined by EPA Method 8240. The Regional Water Quality Control Board (RWQCB), the City of San Francisco Health Department, and the DHS were contacted in regard to action levels for which waste oil contamination is considered to be a threat to the environment. None of these agencies would agree to set a cleanup limit for TPH at this time. The DHS has in the past informally designated petroleum concentrations in soils over 1,000 ppm as hazardous waste; however, the agencies generally agreed that the RWQCB had jurisdiction over what the final TPH cleanup level would be for this site. This cleanup level will have to be negotiated with the RWQCB after it has reviewed all data supplied in this, and possibly future, site assessments.

Volatile organic compounds (VOC) were detected in 17 of the 35 samples analyzed. Methylene chloride, acetone, carbon disulfide, and 2-butanone are common laboratory contaminants that can occur at low concentrations during 8240 analyses. If these compounds are found at concentrations up to five times the detection limit, they are generally viewed as suspected of being a laboratory contaminant and have been so indicated in Table 5. The only sample that had concentrations of these contaminants above five times the detection limit was canal sediment sample CS-2. It is unclear whether these concentrations reflect actual on-site contaminant levels or are due to laboratory error.

The VOC's tetrachloroethene, toluene, ethylbenzene, and xylene were also detected within soil samples. These analyses are considered to be valid and representative of on-site soil conditions. In general, these compounds were detected in the low ppb range and are not considered to be an environmental problem. The only exception to this was the sample from borehole BH-15, in which ethylbenzene was detected at 3.7 ppm and xylene at 57 ppm. This borehole also had the highest level of TPH found within any soil sample on the site. Soils from borehole BH-15 were described as having a strong gasoline odor between five and 14 feet and the analytical results are indicative of weathered gasoline as the contaminant. The regulatory agencies will have to determine if these concentrations represent a potential health hazard.

The heavy metals, lead, nickel, copper and chromium were identified in sampling conducted by previous investigators as the metals of concern at the site. All soil and canal sediment samples were therefore analyzed for these elements as shown in Table 5. The table also lists the TLC and the soluble threshold limit concentrations (STLC) for these metals as listed in Title 22 of the California Code of Regulations (CCR). Title 22 specifies that any substance that exceeds the listed TLC is designated as a hazardous waste. TLC values were exceeded at three locations; lead was above the TLC within boreholes BH-7 and BH-8 and within canal sediment



sample CS-1. Copper was above TLC values within borehole BH-7. Soluble concentrations of the metals were not evaluated for soils during this investigation.

Because lead, nickel, chromium and copper are present to some degree in all soils, metal concentrations below TLC values are generally evaluated with regard to background concentrations for soils within the surrounding area, as well as these soluble levels as related to TLC limits in CCR Title 22, Section 66699. Little information is presently available concerning background concentrations for these metals in local soils. Chemical analyses from bedrock types similar to those that crop out on the site (Franciscan greenstone) have chromium concentrations reported to be in the range of 13 to 307 ppm and nickel concentrations ranging from nine to 83 ppm (Shervais and Kimbrough, 1987). CH2M Hill, the contractor investigating the Bay Area Drum State Superfund site, reported maximum background concentrations in local soils to be 469, 95.9, 67.1, and 48.7 ppm for lead, nickel, chromium, and copper respectively. These concentrations correspond reasonably well with concentrations found in soils on the site. However, more work is needed to establish actual background concentrations for all metals detected, as well as the soluble metal concentrations as related to TLC limits as specified by CCR Title 22, Section 66699. After solubility tests are made, an evaluation concerning the concentration of metals requiring remedial action, and the extent of soils to be remediated can be made.

3.1.3.3 Waste Handling and Disposal Procedures

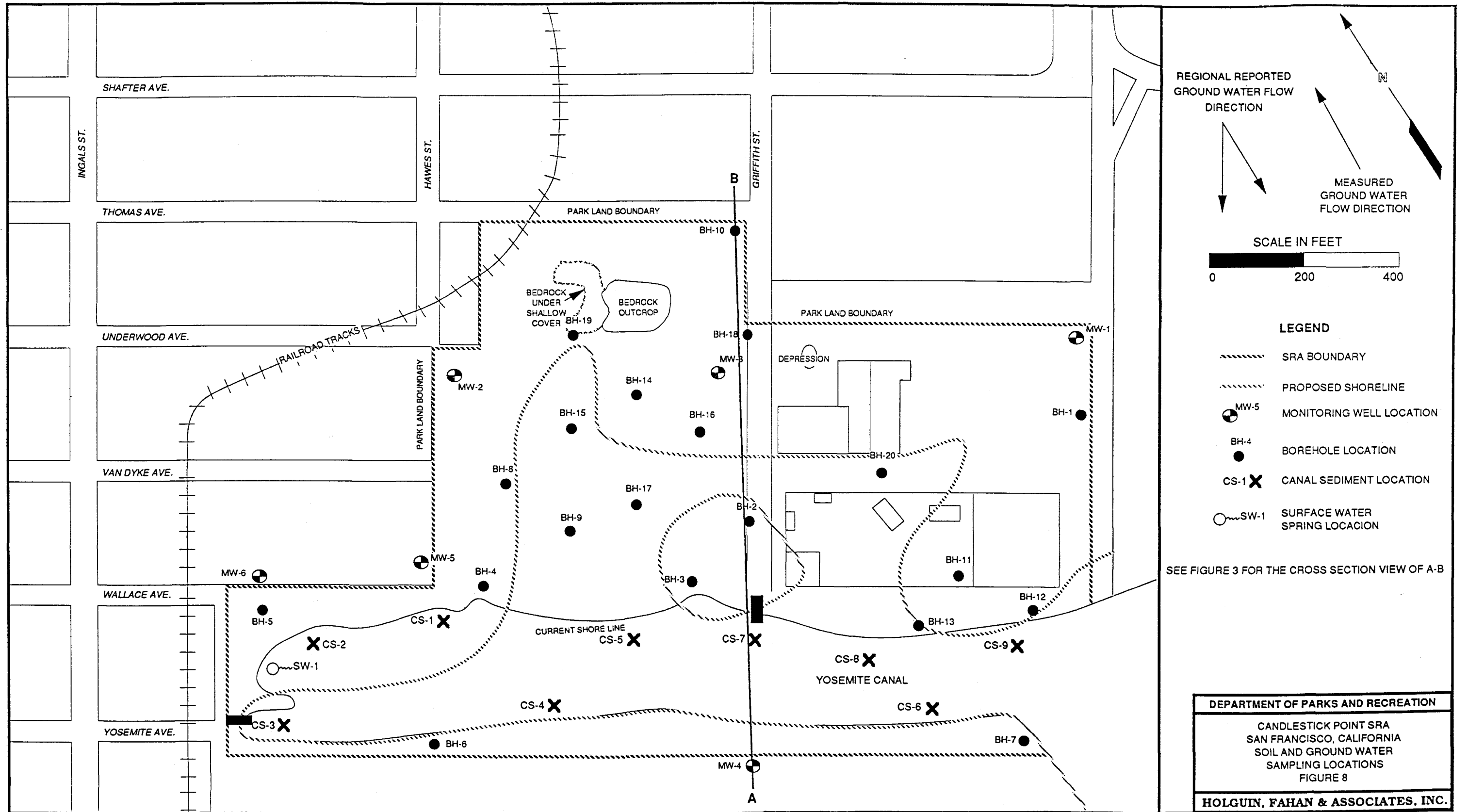
Soil cuttings generated during the drilling of six ground water monitoring wells were placed in 55-gallon Department of Transportation (DOT) 17H drums and stored on site until a determination of their hazardous potential could be made.

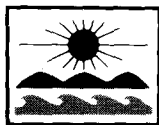
Soil borings were drilled with a two-inch diameter hand auger and less than 10 pounds of cuttings were generated from each borehole. Because of the small volume of soil generated at each borehole location, the hand-drilled cuttings were not containerized and instead were left on site at the boreholes.

Soil samples analyzed from the boreholes and monitoring wells showed only locations BH-7 and BH-8 to contain contaminants above California hazardous waste criteria. Soil cuttings from these boreholes were left at the borehole location and were not containerized. Containerized cuttings generated from installation of the six monitoring wells were shown to be non-hazardous and discharged at the site.

3.2 GROUND WATER AND SURFACE WATER ASSESSMENT

On October 10 and 11, 1989, six ground water monitoring wells were constructed around the perimeter of the proposed nature area as shown on Figure 8. Monitoring wells MW-3 and MW-6 were relocated to their present positions from those recommended in the work plan due to





shallow bedrock obstructions encountered above the water table that prohibited the wells from being installed as proposed. The well locations were chosen to provide the most thorough coverage of both on-site and potential off-site migration of ground water contaminants. One surface water sample was also collected from a spring located at the eastern most end of the Yosemite canal.

3.2.1 Monitoring Well Installation

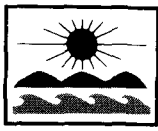
An eight-inch OD hollow-stem, flight auger was used to drill the monitoring wells to a depth of 20 feet below the first encountered ground water. Cuttings from the wells were logged by a registered geologist, and soils were classified according to the standard USCS. Observations regarding the types and quantities of waste materials encountered and all PID readings of cuttings were logged and recorded on monitoring well logs (see Attachment 2).

Monitoring wells were constructed of two-inch inside diameter polyvinyl chloride (PVC) casing with 0.020-inch perforations extending from the bottom of the hole to three to five feet below the ground surface. Perforations extended at least two feet above the top of the high-tide water depth in the wells to allow for tidal fluctuations. Following the pipe installation, #3 Monterey sand was placed in the well annulus as a gravel pack followed by two to three feet of bentonite and one to two feet of concrete to seal the well from surface infiltration, as well as to support the traffic bearing access box. The design of the wells followed the DHS and State Water Resources Control Board guidance manuals. Detailed construction diagrams are shown in Attachment 5.

3.2.1.1 Ground Water Sample Collection Procedure

The monitoring wells were checked for an immiscible layer, but none was detected. The wells were then developed by pumping with a PVC hand pump until non-turbid ground water was produced. The wells were allowed to recharge and were then purged an additional four to seven well volumes prior to extracting a sample representative of the in-situ ground water conditions. During the purging process, the conductivity and temperature of the produced water were constantly measured (see Attachment 6 for the water sample logs). Purging continued until the measured parameters had stabilized, at which time ground water samples were collected. Produced ground water was stored on site in 55-gallon drums.

A decontaminated Teflon™ bailer was used to sample the wells. Ground water samples were placed in decontaminated containers with the appropriate preservatives, which were supplied by the analytical laboratory. The samples were labeled, sealed, and recorded on chain-of-custody forms and placed in a transport container that was filled with Blue-Ice™ for cooling purposes while in the field and during transportation to the laboratory. Samples were tested for metals, including lead, nickel, copper, chromium, arsenic, mercury; for organochlorine pesticides and PCB's by EPA Method 603; for total recoverable petroleum hydrocarbons by



EPA Method 418.1; for purgeable organics, including solvents and benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method 624; and for total phenols by EPA Method 420.2.

3.2.2 Surface Water Sampling Procedures

The only surface water observed at the site, other than San Francisco Bay water, was from a spring located at the eastern end of the Yosemite Canal (see Figure 8 for spring location). The spring was located below the high-tide level of the canal, and has been observed flowing throughout the year by one of the DPR employees (Daniel Dungy, DPR Ranger). Sewer discharge was not sampled as the local Publicly Owned Treatment Works regularly samples and regulates this discharge.

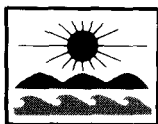
The spring water was sampled at low tide so that the spring was exposed to the atmosphere. Samples were collected by allowing the spring water to run directly into sample containers with as little agitation as possible. Sample containers were supplied by the analytical laboratory and contained the appropriate preservative for each particular analysis. Surface water samples were labeled, sealed and recorded on chain-of-custody forms. The samples were placed in a transport container that was filled with Blue-Ice™ for cooling purposes, and were transported to a DHS certified laboratory for analysis. Surface water samples were analyzed for the same constituents as the ground water samples with the exception of phenols, PCB's and pesticides (EPA Methods 420.2 and 8080).

3.2.2.1 Ground Water and Surface Water Sample Results

The results of ground water sampling are shown in Table 6 and laboratory reports are included in Attachment 4.

The water analyses showed no pesticides, PCB's, phenols or purgeable organics to be present within ground or surface waters sampled at the site. Low concentrations of total petroleum hydrocarbons (one to two ppm) were found in water samples from monitoring wells MW-1 and MW-5 (samples GW-1 and GW-5). These samples did not have any purgeable organics associated with the TPH concentrations, indicating that the TPH concentrations are probably due to the leaching of waste oils that were found in most soils sampled at the site.

Chemical analyses for the heavy metals, lead, nickel, copper, chromium, arsenic, and mercury were also conducted for both surface and ground water samples. The water analyses showed low concentrations of most of the metals to be present in all samples. Metal concentrations were above drinking water action levels for lead in monitoring wells MW-1 and MW-4, and above action levels for chromium in wells MW-1 and MW-3. Arsenic and mercury concentrations were below drinking water action levels in all wells, and no drinking water action levels exist for the metals nickel or copper. The surface water sample showed no metal concentrations above drinking water action levels.



Drinking water action levels are established by the DHS for potentially harmful substances and are used to set concentration limits for which long term human consumption is considered safe. These criteria may not be the appropriate standard for evaluating dissolved metal concentrations in ground water at this site. They are referenced here only because they give a conservative indication of limits that may be applied to ground water by regulatory agencies. Applicable action levels for ground water are determined on a case by case basis by the RWQCB and are based on background concentrations of metals in ground water within the area, the quality and potential usages of the area wide ground water, and the potential impact of the dissolved metals on the health and or environment of the area. Metal concentrations above which remedial actions will be required will have to be negotiated with the RWQCB.

3.2.2.2 Disposal of Containerized Ground Water

Approximately 120 gallons of ground water purged from the six on-site monitoring wells were stored on site in 55-gallon DOT drums. After laboratory analyses showed that the ground water was non-hazardous, the RWQCB and the City of San Francisco Public Works Department, Industrial Waste Division were contacted about disposal of the water through the City sewer system. Both agencies agreed that the water could be sent through the sewer system, and it was therefore disposed of in this manner.

4.0 SUMMARY OF FINDINGS AND DISCUSSION

This study was commissioned by the DPR in order to identify and characterize the contaminants present on the site, to identify potential environmental problems associated with the creation of the proposed wetlands, to evaluate the costs associated with excavation and removal of soil and sediment from the site, and to evaluate the overall feasibility of establishing a wetlands given the chemical characteristics of subsurface soil and ground water at the site. Each of these objectives has been addressed in turn.

4.1 IDENTIFY AND CHARACTERIZE CONTAMINANTS PRESENT AT THE SITE

The primary contaminants identified during this study were heavy metals and TPH in the canal sediments and in soils located throughout the site. Lead concentrations in soils and canal sediments measured greater than 50 mg/kg (10 times the STLC level) in 22 of the 29 soil and sediment samples collected. Lead concentrations exceeded TLC levels (1,000 mg/kg) in three of the samples, thereby establishing these samples as hazardous waste. TLC levels for copper were also exceeded in one of the three samples.

TPH was detected in all soil samples analyzed on the site and, in all but one instance, it was probably due to waste oils and/or other heavy, non-volatile petroleum products.



TPH exceeded 100 ppm in 23 of the 35 samples analyzed and exceeded 1,000 ppm in five of these samples.

At this time it is not clear how these contaminants found their way onto the site. Three possibilities are:

- 1) They could have been incorporated within the fill materials prior to their being placed on site;
- 2) They could be the result of on-site dumping or be the result of discharges by on-site facilities; or
- 3) They could have migrated from an off-site source.

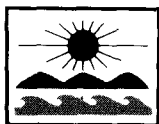
The most likely hypothesis is that the contamination is primarily due to on-site activities or was previously incorporated within the fill materials. Off-site sources may have contributed to the contamination, but because heavy hydrocarbons and lead are not very mobile under most environmental conditions, and because of the widely dispersed contaminant locations and the lack of any identifiable plume or pattern, contamination from off-site sources is probably minor.

It is also unclear at this time the concentration at which the regulatory agencies will require cleanup of metals and TPH. Potentially, all dredged material could be considered hazardous and require special handling and disposal at costs up to \$300 per cubic yard. Cleanup levels for metals and TPH will first have to be negotiated with the regulatory agencies and a more detailed study conducted, which delineates the areal extent and depth of the contaminants, before any reasonable estimate of costs associated with the excavation and disposal of dredge materials can be made.

Regulatory agencies that will be responsible for establishing the contaminant action levels will be the RWQCB, the DHS, and the City of San Francisco Health Department, in accordance with the Maher Ordinance.

4.2 IDENTIFY POTENTIAL ENVIRONMENTAL PROBLEMS ASSOCIATED WITH THE CREATION OF THE PROPOSED WETLANDS

The environmental problems that have been identified to date are elevated heavy metal and heavy hydrocarbon concentrations in the soil, sediment, and ground water at the site. These contaminants could have two impacts on the creation of the proposed wetlands. First, the soluble component of the heavy metals could contribute to a biocidal effect on the microorganism community that must develop at the site in order to have a viable wetlands,



thereby restricting the recolonization of the wetlands to those organisms that are able to withstand the present environmental conditions. Secondly, the regulatory requirements associated with the remediation of contaminants in soils and ground water at the site may make the creation of the proposed wetlands cost prohibitive.

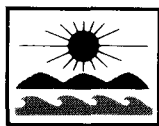
4.3 EVALUATE THE COSTS ASSOCIATED WITH EXCAVATION AND REMOVAL OF SOIL AND SEDIMENT FROM THE SITE

The cost for remediating the contaminants identified by this study cannot be estimated at this time for the following reasons:

- 1) The level of hydrocarbons and heavy metals at the site could be considered high enough to require cleanup by the RWQCB or the DHS. However, cleanup levels are set on a site by site basis and are based on background concentrations in the area, the depth to and uses of ground water in the area, and the health sensitivity of the area. Until it is known whether the regulatory agencies will require cleanup of the contaminants identified at the site, and until action levels are established, it is not possible to estimate cleanup costs.
- 2) The sampling for this preliminary assessment was designed to screen the site for possible contamination. Sampling was therefore conducted on a systematic basis with a sample spacing of approximately 150 feet. This sample frequency is not fine enough to delineate the boundaries of any identified contamination. A meaningful estimate of the cost to mitigate the contamination must therefore await a more detailed assessment.
- 3) Heavy metal concentrations that could exceed the STLC's have been identified in 22 of the 29 soil and sediment samples collected at the site. Until solubility tests, conducted in accordance with CCR Title 22, Section 66700, have been performed on soil and sediment samples, the volume of material that exceeds these levels is unknown. STLC's of the soils will be required by the regulators before they can establish site cleanup action levels.

4.4 EVALUATE THE OVERALL FEASIBILITY OF ESTABLISHING A WETLANDS GIVEN THE CHEMICAL CHARACTERISTICS OF SUBSURFACE SOIL AND GROUND WATER AT THE SITE

Based on the current available information, it is not possible to estimate the feasibility of establishing a wetlands at this facility. Additional studies, as outlined below, will be required.



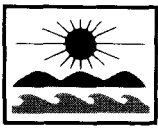
5.0 CONCLUSIONS AND RECOMMENDATIONS

High concentrations of heavy metals and TPH were found in soil samples collected throughout the site and appear to be the primary concern identified by this study. Ground water and surface water appeared to have been impacted, but dissolved contaminant concentrations were generally found to be low and probably will not significantly impact the establishment of a wetlands in this area. The next phase of the investigation should therefore concentrate on establishing background levels for the area, establishing action levels with the regulators, and determining the limits of the soil contamination on the site.

Recommendations for additional work include:

- 1) Establish naturally occurring background levels for metals in the bedrock that crops out at the site, in fill materials that have been used in other parts of San Francisco Bay, and in naturally occurring soils developed on similar types of bedrock;
- 2) Establish naturally occurring metal concentrations in shallow ground water wells in other parts of the City of San Francisco;
- 3) Determine the constituent makeup of the hydrocarbon contamination detected throughout the soil, sediment and ground water at the facility through additional testing;
- 4) Determine the lateral and vertical extent of the contamination identified during this study by further soil sampling;
- 5) Negotiate action levels with the RWQCB and the DHS for the identified contaminants;
- 6) Evaluate the costs for disposal of excavated materials after action levels have been established and the areal and vertical extent of contamination has been mapped and its volume calculated; and
- 7) Determine through literature research, if possible, or microcosm studies, if necessary, if the levels of organics and heavy metals will impact the recolonization of the wetlands by microorganisms.

The costs associated with completing this next phase of the investigation are estimated to be \$50,000 to \$75,000.



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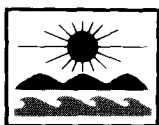
ENVIRONMENTAL MANAGEMENT CONSULTANTS

ATTACHMENT 1

LIST OF REFERENCES

LIST OF REFERENCES

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4. Daniel Dungy, Chief Ranger San Francisco District, California State Department of Parks and Recreation.
5. Steve Medburry, City of San Francisco Public Works Department, telephone conversation of December 15, 1989.
6. Anna Cross, Park Maintenance Chief, San Francisco District, California State Department of Parks and Recreation.
7. Pam Hollis, City of San Francisco Health Department, Hazardous Waste Section, telephone conversation of November 30, 1989.
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10. Stan Snock, Department of Public Works, Industrial Waste Division of Clean Water, telephone conversation of November 21, 1989.
11. Tommy Lee, Department of Public Works, Industrial Waste Division of Clean Water, telephone conversation of November 13, 1989.
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13. Shervais, J.W. and Kimbrough, D.L., 1987, "Alkaline and Transitional Subalkaline Basalts in the Franciscan Complex Melange", in Morris, E.M. and Pasteris, J.D., eds., Mantle Metasomatism and Alkaline Magmatism, Geological Society of America Special Paper 215, p. 167-182.



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ATTACHMENT 2

LOGS OF SOIL BORINGS AND MONITORING WELLS

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: 8" hollow-stem auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-1
DRILL HOLE LOCATION: 50' southerly and 50' westerly at right angles from
northeastern corner of park boundary fence line

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

[illegible]

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: 8" hollow-stem auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-2
DRILL HOLE LOCATION: 80' southerly and 30' easterly at right angles from
intersection of railroad spur and fence line

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. # 4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

[illegible]

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: 8" hollow-stem auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-3
DRILL HOLE LOCATION: 108' southerly and 65' westerly at right angles from corner of fence at northwest corner of the intersection of Griffith St. and Underwood Ave.

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

[illegible]

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: 8" hollow-stem auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-4
DRILL HOLE LOCATION: Adjacent to fence at end of Yosemite Ave.
extension on southern canal bank

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Foggy and cool

[illegible]

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: 8" hollow-stem auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-5
DRILL HOLE LOCATION: 90' northerly on the western side of the fence line
corner at the end of the Wallace Ave. extension

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

[illegible]

LOG OF MONITORING WELL

CLIENT: California Department of Parks and Recreation

PROJECT: Candlestick Point

DRILLING METHOD: 8" hollow-stem auger

DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: MW-6

DRILL HOLE LOCATION: 100' southerly along extension of Wallace Ave.

adjacent to fenceline bordering the canal

DATE: October 11, 1989

PREPARED BY: S. Richardson, Reg. Geol. #4684

CHECKED BY: M. Fahan, Reg. Geol. #4279

WEATHER CONDITIONS: Clear

[illegible]

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger/light auger
DRILLED BY: R. Ellis

DATE: October 10, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear and warm

* Type of PID utilized: Hnu Model PI 101, Serial No: 601286, Calibrated to: 60 ppm, Number of background samples taken: 1, Results of background samples: 0

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger/flight auger
DRILLED BY: R. Ellis

DRILL HOLE NO.: BH-2
DRILL HOLE LOCATION: West of Griffith Rd., 170' north of canal

DATE: October 10, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear and warm

[illegible]

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger/light auger
DRILLED BY: R. Ellis

DATE: October 10-11, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear and warm

SEE PLATE A-1 FOR LEGEND TO LOGS

DATE: October 10-11, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear and warm

HOLGUIN & ASSOCIATES, INC./73 No. Palm St./Ventura, CA 93001/805-652-0219

LOG OF SOIL BORING

PROJECT: Candlestick Point

PROJECT: Candlestick Point

DRILLED BY: R. Ellis

DRILLED BY: R. Ellis

DRILL HOLE LOCATION: Northwest corner of canal

DRILL HOLE LOCATION: Northwest corner of canal

PREPARED BY: R. Ellis

PREPARED BY: R. Ellis

WEATHER CONDITIONS: Clear, warm and

WEATHER CONDITIONS: Clear, warm and windy

[illegible]

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger
DRILLED BY: R. Ellis

DATE: October 10, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, cool and windy

SEE PLATE A-1 FOR LEGEND TO LOGS

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger
DRILLED BY: R. Ellis

DRILL HOLE NO.: BH-7
DRILL HOLE LOCATION: South of canal, 200' west of eastern boundary

DATE: October 10, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, cool and windy

[illegible]

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: BH-8
DRILL HOLE LOCATION: Near SV # C-11

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, cool and windy

[illegible]

SEE PLATE A-1 FOR LEGEND TO LOGS

HOLGUIN & ASSOCIATES, INC./73 No. Palm St./Ventura, CA 93001/805-652-0219

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, cool and windy

SEE PLATE A-1 FOR LEGEND TO LOGS

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: BH-10
DRILL HOLE LOCATION: 30' southerly and 10' westerly from the southwest corner of Griffith St.
and Thomas Ave.

DATE: October 10, 1989
PREPARED BY: S. Richardson, Reg. Geol. # 4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, windy and cool

SEE PLATE A-1 FOR LEGEND TO LOGS

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger
DRILLED BY: M. Fahan, Reg. Geol. #4279

DRILL HOLE NO.: BH-11
DRILL HOLE LOCATION: 30' south of SV #C-3

DATE: October 11, 1989
PREPARED BY: M. Fahan, Reg. Geol. #4279
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Foggy

[illegible]

* Type of PID utilized: Hnu Model PI 101, Serial No: 601286, Calibrated to: 60 ppm, Number of background samples taken: 1, Results of background samples: 0

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger
DRILLED BY: M. Fahan, Reg. Geol. #4279

DATE: October 11, 1989
PREPARED BY: M. Fahan, Reg. Geol. #4279
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Cloudy

SEE PLATE A-1 FOR LEGEND TO LOGS

LOG OF SOIL BORING

PROJECT: Candlestick Point

DRILLED BY: R. Ellis

DRILL HOLE LOCATION: North of canal, 300' west of eastern boundary

PREPARED BY: R. Ellis

WEATHER CONDITIONS: Cloudy and cool

[illegible]

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: hand auger
DRILLED BY: R. Ellis

DRILL HOLE NO.: BH-14
DRILL HOLE LOCATION: 100' south of Underwood Ave., 200' west of Griffith Rd.

DATE: October 11, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear and warm

[illegible]

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DATE: October 11, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, windy and cool

SEE PLATE A-1 FOR LEGEND TO LOGS

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, windy and cool

SEE PLATE A-1 FOR LEGEND TO LOGS

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: BH-17
DRILL HOLE LOCATION: 200' west of Griffith Rd., 200' north of canal

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear, windy and cool

[illegible]

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

HOLGUIN & ASSOCIATES, INC./73 No. Palm St./Ventura, CA 93001/805-652-0219

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: BH-19
DRILL HOLE LOCATION: 350' west of Griffith Rd. along Underwood Ave.

DATE: October 11, 1989
PREPARED BY: S. Richardson, Reg. Geol. #4684
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Clear

[illegible]

LOG OF SOIL BORING

CLIENT: California Department of Parks and Recreation
PROJECT: Candlestick Point
DRILLING METHOD: flight auger
DRILLED BY: HEW Drilling Company

DRILL HOLE NO.: BH-20
DRILL HOLE LOCATION: 200' east of Griffith Rd. along Van Dyke

DATE: October 11, 1989
PREPARED BY: R. Ellis
CHECKED BY: M. Fahan, Reg. Geol. #4279
WEATHER CONDITIONS: Cloudy and cool

[illegible]

UNIFIED SOIL CLASSIFICATION SYSTEM

| MAJOR DIVISION | | | GROUP SYMBOL | DESCRIPTION | GRAPHIC LOG |
|---|---|--|--------------|--|-------------|
| COARSE GRAINED SOILS OVER 50% BY WEIGHT COARSER THAN NO. 200 SIEVE SIZE | GRAVELLY SOILS OVER 50% OF COARSE FRACTION LARGER THAN NO. 4 SIEVE SIZE | CLEAN GRAVELLY SOILS LITTLE OR NO FINES | GW | Well graded gravels or gravel-sand mixtures | |
| | | | GP | Poorly graded gravels or gravel-sand mixtures | |
| | | GRAVELLY SOILS WITH FINES OVER 12% FINES | GM | Silty Gravels or poorly graded gravel-sand-silt mixtures | |
| | | | GC | Clayey gravels or poorly graded gravel-sand-clay mixtures | |
| | SANDY SOILS OVER 50% OF COARSE FRACTION SMALLER THAN NO. 4 SIEVE SIZE | CLEAN SANDY SOILS LITTLE OR NO FINES | SW | Well graded sands or gravelly sands | |
| | | | SP | Poorly graded sands or gravelly sands | |
| | | SANDY SOILS WITH FINES OVER 12% FINES | SM | Silty sands or poorly graded sand - silt mixtures | |
| | | | SC | Clayey sands or poorly graded sand - clay mixtures | |
| FINE GRAINED SOILS OVER 50% BY WEIGHT FINER THAN NO. 200 SIEVE SIZE | SILTY AND CLAYEY SOILS LIQUID LIMIT LESS THAN 50 | | ML | Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity | |
| | | | CL | Inorganic clays of low to medium plasticity, gravelly clays, sandy clay silty clays, or lean clays | |
| | | | OL | Organic clays or organic silty clays or low plasticity | |
| | SILTY AND CLAYEY SOILS LIQUID LIMIT GREATER THAN 50 | | MH | Inorganic silts, micaceous or diato- maceous fine sandy or silty soils, or elastic silts | |
| | | | CH | Inorganic clays of high plasticity, or fat clays | |
| | | | OH | Organic clays or medium to high plasticity, or organic silts | |
| | HIGHLY ORGANIC SOILS | | PI | Peat or other highly organic soil | |

SAMPLE - Sample types are indicated as follows:



Undisturbed

Disturbed

Unsuccessful Attempt

Standard Penetration

* = SAMPLER TYPES

M = Modified California

S = Shelby Tube (Pushed)

PT = Pitcher Barrel

P = Hydraulic Piston

Water Inflow

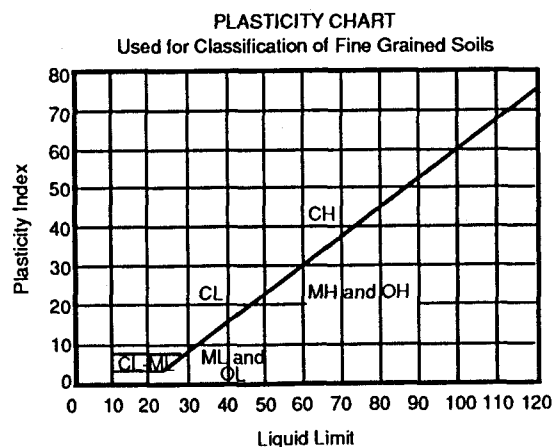
Water Level

BLOW COUNT - The number of blows required to drive the indicated sampler the last 12 inches of an 18 inch drive. The notation 100/9 indicates only 9 inches of penetration were achieved in 100 blows. Hammer weights and drop heights are shown as indicated below:

| Symbol | Driving Weight (pounds) | Drop Height (inches) |
|--------|----------------------------|-------------------------|
| 7 | _____ | _____ |
| (3) | _____ | _____ |
| [6] | _____ | _____ |
| ④ | _____ | _____ |
| 5 | _____ | _____ |
| 6 | _____ | _____ |

Heavy Caving

Light Caving



ADDITIONAL TESTS -

UC : Unconfined Compression

TD : Triaxial Compression,
Drained

TU : Triaxial Compression,
Undrained

TDy : Triaxial Compression,
Dynamic

PH : Hydrogen Ion Concentration

PA : Paleontologic, Analysis

GS : Grain Size Distribution

WP : Water Pressure

PMt : Pressuremeter

SE : Sand Equivalent

GJ : Goodman Jack

SP : Specific Gravity

CP : Compaction

C : Consolidation

DS : Direct Shear

PM : Permeability

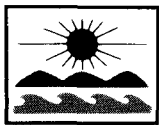
EX : Expansion

RS : Resistivity

S : Swell

CL : Chloride

SU : Sulphate



HOLGUIN,
FAHAN
& ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT CONSULTANTS

ATTACHMENT 3
GAS CHROMATOGRAPH DATA

CANDLESTICK POINT SOIL VAPOR DATA: GC READINGS REFERENCED TO 100 PPM HEXANE

| | | | | | | | | |
|------------------------------|-------------|------|----------------|--------------|-------------------|-------------|----------|-------------|
| FIELD BLANK October 10, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 32.5 | 2527.7 | 10 | 0.5 | 1011.08 | | | | |
| 20.1 | | | | | | | | |
| 563.3 | | | | | | | | |
| 1700.0 | | | | | | | | |
| 93.0 | | | | | | | | |
| 10.5 | | | | | | | | |
| 89.6 | | | | | | | | |
| 18.7 | | | | | | | | |
| C-1 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 38.8 | 6758.3 | 10 | 0.5 | 2703.32 | 1011.08 | 1692.24 | 182 | 9.298021978 |
| 103.9 | | | | | | | | |
| 936.1 | | | | | | | | |
| 5200 | | | | | | | | |
| 361.3 | | | | | | | | |
| 92 | | | | | | | | |
| 26.2 | | | | | | | | |
| C-2 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 27.4 | 4740.9 | 10 | 0.5 | 1896.36 | 1011.08 | 885.28 | 182 | 4.864175824 |
| 19.9 | | | | | | | | |
| 19.2 | | | | | | | | |
| 724.2 | | | | | | | | |
| 3700 | | | | | | | | |
| 114.3 | | | | | | | | |
| 126.3 | | | | | | | | |
| 9.6 | | | | | | | | |
| C-3 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 43.1 | 17070.8 | 10 | 0.5 | 6828.32 | 1011.08 | 5817.24 | 182 | 31.96285714 |
| 990.8 | | | | | | | | |
| 4000 | | | | | | | | |
| 2000 | | | | | | | | |
| 4400 | | | | | | | | |
| 3000 | | | | | | | | |
| 543.6 | | | | | | | | |
| 1100 | | | | | | | | |
| 841.3 | | | | | | | | |
| 82.4 | | | | | | | | |
| 31.9 | | | | | | | | |
| 10.1 | | | | | | | | |
| 5.2 | | | | | | | | |
| 13.8 | | | | | | | | |
| 8.6 | | | | | | | | |
| C-4 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 43.1 | 3109.8 | 10 | 0.5 | 1243.92 | 1011.08 | 232.84 | 182 | 1.279340659 |
| 655.2 | | | | | | | | |
| 1900 | | | | | | | | |
| 70.4 | | | | | | | | |
| 86 | | | | | | | | |
| 13.1 | | | | | | | | |
| 196.3 | | | | | | | | |
| 145.7 | | | | | | | | |
| C-5 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 322.8 | 3678.2 | 10 | 0.5 | 1471.28 | 1011.08 | 460.2 | 182 | 2.528571429 |
| 825.2 | | | | | | | | |
| 2300 | | | | | | | | |
| 112.1 | | | | | | | | |
| 94 | | | | | | | | |
| 18.5 | | | | | | | | |
| 5.6 | | | | | | | | |
| C-6 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 445.9 | 3688.2 | 10 | 0.5 | 1475.28 | 1011.08 | 464.2 | 182 | 2.550549451 |
| 781.9 | | | | | | | | |
| 2300 | | | | | | | | |
| 73.2 | | | | | | | | |
| 87.2 | | | | | | | | |

CANDLESTICK POINT SOIL VAPOR DATA: GC READINGS REFERENCED TO 100 PPM HEXANE

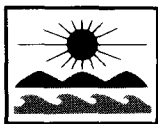
| | | | | | | | | |
|-------------------------------------|-------------|------|----------------|--------------|-------------------|-------------|----------|--------------|
| C-7 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 699.2 | 5546.8 | 10 | 0.5 | 2218.72 | 1011.08 | 1207.64 | 182 | 6.635384615 |
| 806.7 | | | | | | | | |
| 2300 | | | | | | | | |
| 97.5 | | | | | | | | |
| 38.9 | | | | | | | | |
| 23.4 | | | | | | | | |
| FIELD BLANK OCTOBER 10, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 44.1 | 1581.1 | 10 | 0.5 | 632.44 | | | | |
| 22.1 | | | | | | | | |
| 267.3 | | | | | | | | |
| 1100.0 | | | | | | | | |
| 68.0 | | | | | | | | |
| 6.4 | | | | | | | | |
| 73.2 | | | | | | | | |
| C-8 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 72.3 | 2829.3 | 10 | 0.5 | 1131.72 | 1011.08 | 120.64 | 182 | 0.662857143 |
| 248.2 | | | | | | | | |
| 621.8 | | | | | | | | |
| 1500 | | | | | | | | |
| 79.8 | | | | | | | | |
| 206.8 | | | | | | | | |
| 62.8 | | | | | | | | |
| 27.3 | | | | | | | | |
| 10.3 | | | | | | | | |
| C-11 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 61.2 | 2562.8 | 10 | 0.5 | 1025.12 | 632.44 | 392.68 | 182 | 2.157582418 |
| 163.1 | | | | | | | | |
| 777.3 | | | | | | | | |
| 1500 | | | | | | | | |
| 61.2 | | | | | | | | |
| C-13 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 18.8 | 729.6 | 10 | 0.5 | 291.84 | 632.44 | -340.6 | 182 | -1.871428571 |
| 89.6 | | | | | | | | |
| 456.4 | | | | | | | | |
| 110.8 | | | | | | | | |
| 54 | | | | | | | | |
| FIELD BLANK OCTOBER 11, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 581.0 | 581 | 10 | 0.5 | 232.4 | | | | |
| C-19 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 534.5 | 534.5 | 10 | 0.5 | 213.8 | 232.4 | -18.6 | 182 | -0.102197802 |
| C-20 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 1300 | 2056.7 | 10 | 0.5 | 822.68 | 232.4 | 590.28 | 182 | 3.243296703 |
| 756.7 | | | | | | | | |
| C-25 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 564.1 | 828.1 | 10 | 0.5 | 331.24 | 232.4 | 98.84 | 182 | 0.543076923 |
| 264 | | | | | | | | |
| C-30 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 990.9 | 990.9 | 10 | 0.5 | 396.36 | 232.4 | 163.96 | 182 | 0.900879121 |
| FIELD BLANK OCTOBER 11, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 307.5 | 913.6 | 10 | 0.5 | 365.44 | | | | |
| 194.1 | | | | | | | | |
| 348.3 | | | | | | | | |
| 63.7 | | | | | | | | |

CANDLESTICK POINT SOIL VAPOR DATA: GC READINGS REFERENCED TO 100 PPM HEXANE

| | | | | | | | | |
|-------------------------------------|-------------|------|----------------|--------------|-------------------|-------------|----------|-------------|
| C-36 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 100 | 1858.4 | 10 | 0.5 | 743.36 | 365.44 | 377.92 | 182 | 2.076483516 |
| 1700 | | | | | | | | |
| 58.4 | | | | | | | | |
| C-40 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 137 | 344.7 | 10 | 0.5 | 137.88 | 365.44 | -227.56 | 182 | -1.25032967 |
| 156.2 | | | | | | | | |
| 51.5 | | | | | | | | |
| FIELD BLANK OCTOBER 11, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 84.1 | 84.1 | 10 | 0.5 | 33.64 | | | | |
| C-43 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 212.3 | 1773.6 | 10 | 0.5 | 709.44 | 33.64 | 675.8 | 182 | 3.713186813 |
| 342.2 | | | | | | | | |
| 19.1 | | | | | | | | |
| 1200 | | | | | | | | |
| C-48 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 172.9 | 192.1 | 10 | 0.5 | 76.84 | 33.64 | 43.2 | 182 | 0.237362637 |
| 19.2 | | | | | | | | |
| FIELD BLANK OCTOBER 12, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 507.1 | 507.1 | 10 | 0.5 | 202.84 | | | | |
| C-54 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 539.9 | 539.9 | 10 | 0.5 | 215.96 | 202.84 | 13.12 | 182 | 0.072087912 |
| C-55 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 746.6 | 794.2 | 10 | 0.5 | 317.68 | 202.84 | 114.84 | 182 | 0.630989011 |
| 47.6 | | | | | | | | |
| C-59 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 790.4 | 790.4 | 10 | 0.5 | 316.16 | 202.84 | 113.32 | 182 | 0.622637363 |
| C-63 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 729.1 | 729.1 | 10 | 0.5 | 291.64 | 202.84 | 88.8 | 182 | 0.487912088 |
| C-67 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 728.4 | 728.4 | 10 | 0.5 | 291.36 | 202.84 | 88.52 | 182 | 0.486373626 |
| FIELD BLANK OCTOBER 12, 1989 | | | | | | | | |
| PEAK AREAS | TOTAL AREA | GAIN | SPL VOL. (1ML) | AREA/PPM | | | | |
| 385.2 | 385.2 | 10 | 0.5 | 154.08 | | | | |
| C-72 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 61.7 | 811.3 | 10 | 0.5 | 324.52 | 154.08 | 170.44 | 182 | 0.936483516 |
| 717.3 | | | | | | | | |
| 32.3 | | | | | | | | |
| C-78 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 555.3 | 578.6 | 10 | 0.5 | 231.44 | 154.08 | 77.36 | 182 | 0.425054945 |
| 23.3 | | | | | | | | |
| C-82 | | | | | | | | |
| PEAK AREAS | TOTAL AREAS | GAIN | SPL VOL. (1ML) | STANDARDIZED | MINUS FIELD BLANK | ACTUAL AREA | AREA/PPM | ACTUAL PPM |
| 42.3 | 754.2 | 10 | 0.5 | 301.68 | 154.08 | 147.6 | 182 | 0.810989011 |
| 696.3 | | | | | | | | |
| 15.6 | | | | | | | | |

CANDLESTICK POINT SOIL VAPOR DATA: GC READINGS REFERENCED TO 100 PPM HEXANE

[illegible]



HOLGUIN,
FAHAN
& ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT CONSULTANTS

ATTACHMENT 4
LABORATORY ANALYSIS RESULTS

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003
(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173201
Received: 10/16/89
Type: Liquid

Collector: Client
Sampling Date & Time: 10/13/89, 1515
Method: Not Specified

I.D.: GW-1

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-------------------------------------|---------------|---------------------|--------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 200.7 | 2.3 | mg/L | 0.05 |
| Nickel | EPA 200.7 | 0.34 | mg/L | 0.02 |
| Copper | EPA 200.7 | 0.43 | mg/L | 0.05 |
| Chromium, Total | EPA 200.7 | 0.18 | mg/L | 0.02 |
| Arsenic | EPA 206.3 | 0.032 | mg/L | 0.005 |
| Mercury | EPA 245.1 | 0.001 | mg/L | 0.001 |
| - Phenols, Total | EPA 420.2 | ND <0.4 | mg/L** | 0.1 |
| - Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 2 | mg/L | 1 |
| | | | | |
| -EPA Method 608/8080- | | Analyzed 10/20/89 * | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|---------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Chlordane | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 | ug/L | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 | ug/L | 0.5 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173205
Received: 10/16/89
Type: Sediment

Collector: Client
Sampling Date & Time: 10/13/89, 1430
Method: Not Specified

I.D.: GW-2

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|---------------|--------------------|------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 239.2 | ND <0.005 | mg/L | 0.005 |
| Nickel | EPA 200.7 | 0.09 | mg/L | 0.02 |
| Copper | EPA 200.7 | ND <0.05 | mg/L | 0.05 |
| Chromium, Total | EPA 218.2 | 0.013 | mg/L | 0.01 |
| Arsenic | EPA 206.3 | ND <0.005 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Phenols, Total | EPA 420.2 | ND <0.1 | mg/L | 0.1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <1 | mg/L | 1 |
| -EPA Method 608/8080- | | Analyzed 10/20/89 | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|---------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Chlordane | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 | ug/L | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 | ug/L | 0.5 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003
(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173209
Received: 10/16/89
Type: Liquid

Collector: Client
Sampling Date & Time: 10/13/89, 1450
Method: Not Specified

I.D.: GW-3

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|---------------|---|------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 239.2 | 0.020 | mg/L | 0.005 |
| Nickel | EPA 200.7 | 0.46 | mg/L | 0.02 |
| Copper | EPA 200.7 | 0.14 | mg/L | 0.05 |
| Chromium, Total | EPA 200.7 | 0.34 | mg/L | 0.02 |
| Arsenic | EPA 206.3 | 0.016 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Phenols, Total | EPA 420.2 | ND <0.1 | mg/L | 0.1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <1 | mg/L | 1 |
| -EPA Method 608/8080- | | | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Analyzed 10/20/89 Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|--------------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 ug/L | | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 ug/L | | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 ug/L | | 0.1 |
| Chlordane | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 ug/L | | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 ug/L | | 0.5 |

ENSECO—CRL/Ventura

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(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173213
Received: 10/16/89
Type: Liquid

Collector: Client
Sampling Date & Time: 10/12/89, 1615
Method: Not Specified

I.D.: GW-4

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|---------------|---|---------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 200.7 | 0.20 | mg/L | 0.05 |
| Nickel | EPA 200.7 | 0.19 | mg/L | 0.02 |
| Copper | EPA 200.7 | 0.09 | mg/L | 0.05 |
| Chromium, Total | EPA 200.7 | 0.09 | mg/L | 0.02 |
| Arsenic | EPA 206.3 | 0.009 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Phenols, Total | EPA 420.2 | ND <0.4 | mg/L* * | 0.1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <1 | mg/L | 1 |
| -EPA Method 608/8080- | | | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Analyzed 10/20/89 * Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.5 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|---------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Chlordane | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 | ug/L | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 | ug/L | 0.5 |

ENSECO—CRL/Ventura

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Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173217
Received: 10/16/89
Type: Liquid

Collector: Client
Sampling Date & Time: 10/13/89, 1340
Method: Not Specified

I.D.: GW-5

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|---------------|---|------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 239.2 | ND <0.005 | mg/L | 0.005 |
| Nickel | EPA 200.7 | 0.08 | mg/L | 0.02 |
| Copper | EPA 200.7 | ND <0.05 | mg/L | 0.05 |
| Chromium, Total | EPA 218.2 | 0.019 | mg/L | 0.01 |
| Arsenic | EPA 206.3 | 0.007 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Phenols, Total | EPA 420.2 | ND <0.1 | mg/L | 0.1 |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 1 | mg/L | 1 |
| -EPA Method 608/8080- | | | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Analyzed 10/20/89 Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|---------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Chlordane | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 | ug/L | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 | ug/L | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 | ug/L | 0.5 |

ENSECO—CRL/Ventura

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Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173221
Received: 10/16/89
Type: Sediment

Collector: Client
Sampling Date & Time: 10/13/89, 1315
Method: Not Specified

I.D.: GW-6

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|---------------|--------------------|------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 239.2 | 0.020 | mg/L | 0.005 |
| Nickel | EPA 200.7 | 0.29 | mg/L | 0.02 |
| Copper | EPA 200.7 | 0.17 | mg/L | 0.05 |
| Chromium, Total | EPA 200.7 | 0.06 | mg/L | 0.02 |
| Arsenic | EPA 206.3 | 0.009 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Phenols, Total | EPA 420.2 | ND <0.1 | mg/L | 0.1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <1 | mg/L | 1 |
| | | | | |
| -EPA Method 608/8080- | | Analyzed 10/20/89 | | |
| -EPA 608/8080 Extraction | EPA 3510/3520 | Extracted 10/19/89 | | |
| Alpha-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Beta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Delta-BHC | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Gamma-BHC (Lindane) | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Aldrin | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Heptachlor Epoxide | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Endosulfan I | EPA 608 | ND <0.05 | ug/L | 0.05 |
| Dieldrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDE | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endosulfan II | EPA 608 | ND <0.1 | ug/L | 0.1 |
| 4,4' - DDD | EPA 608 | ND <0.1 | ug/L | 0.1 |
| Endrin Aldehyde | EPA 608 | ND <0.1 | ug/L | 0.1 |

ENSECO—CRL/Ventura

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(805) 650-0546 • FAX: (805) 650-0756

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------|---------|--------------|------|-----|
| Endosulfan Sulfate | EPA 608 | ND <0.1 ug/L | | 0.1 |
| 4,4' - DDT | EPA 608 | ND <0.1 ug/L | | 0.1 |
| Methoxychlor | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Endrin Ketone | EPA 608 | ND <0.1 ug/L | | 0.1 |
| Chlordane | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Toxaphene | EPA 608 | ND <1.0 ug/L | | 1 |
| Aroclor - 1016 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1221 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1232 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1242 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1248 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1254 | EPA 608 | ND <0.5 ug/L | | 0.5 |
| Aroclor - 1260 | EPA 608 | ND <0.5 ug/L | | 0.5 |

ENSECO—CRL/Ventura

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Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173225
Received: 10/16/89
Type: Liquid

Collector: Client
Sampling Date & Time: 10/13/89, 1845
Method: Not Specified

I.D.: SW-1

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-------|
| EPA Method 624/8240 | | See Attached | | |
| Lead | EPA 239.2 | ND <0.005 | mg/L | 0.005 |
| Nickel | EPA 200.7 | 0.08 | mg/L | 0.02 |
| Copper | EPA 200.7 | ND <0.05 | mg/L | 0.05 |
| Chromium, Total | EPA 218.2 | 0.021 | mg/L | 0.01 |
| Arsenic | EPA 206.3 | 0.010 | mg/L | 0.005 |
| Mercury | EPA 245.1 | ND <0.001 | mg/L | 0.001 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <1 | mg/L | 1 |

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Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173226
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: CS-1 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 1300 | mg/kg | 1 |
| Nickel | EPA 7520 | 180 | mg/kg | 1 |
| Copper | EPA 7210 | 22 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 41 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 98 | mg/kg | 5 |

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 Ventura, CA 93001
 Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
 805/652/0219

Project: Candlestick Point
 Dept of Park & Rec.

Sample #: 9289173227
 Received: 10/16/89
 Type: Soil

Collector: Client
 Sampling Date & Time: **/**/**, ****
 Method: Composite

I.D.: CS-2 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 420 mg/kg | | 1 |
| Nickel | EPA 7520 | 37 mg/kg | | 1 |
| Copper | EPA 7210 | 76 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 250 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 1200 mg/kg | | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173228
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: CS-3 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 29 mg/kg | | 1 |
| Nickel | EPA 7520 | 21 mg/kg | | 1 |
| Copper | EPA 7210 | 17 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 27 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 68 mg/kg | | 5 |

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173229
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, 0615
Method: Composite

I.D.: CS-4 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 140 | mg/kg | 1 |
| Nickel | EPA 7520 | 28 | mg/kg | 1 |
| Copper | EPA 7210 | 34 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 42 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 990 | mg/kg | 5 |

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Holguin & Associates, Inc.
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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173230
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, 0630
Method: Composite

I.D.: CS-5 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 470 mg/kg | | 1 |
| Nickel | EPA 7520 | 56 mg/kg | | 1 |
| Copper | EPA 7210 | 110 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 48 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 660 mg/kg | | 5 |

ENSECO—CRL/Ventura

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173231
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, 0645
Method: Composite

I.D.: CS-6 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 420 mg/kg | | 1 |
| Nickel | EPA 7520 | 550 mg/kg | | 1 |
| Copper | EPA 7210 | 140 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 680 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 360 mg/kg | | 5 |

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Holguin & Associates, Inc.
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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173232
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, 0710
Method: Composite

I.D.: CS-7 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 170 | mg/kg | 1 |
| Nickel | EPA 7520 | 62 | mg/kg | 1 |
| Copper | EPA 7210 | 170 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 65 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 280 | mg/kg | 5 |

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Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173233
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/13/89, 1720
Method: Composite

I.D.: CS-8 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 200 | mg/kg | 1 |
| Nickel | EPA 7520 | 35 | mg/kg | 1 |
| Copper | EPA 7210 | 95 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 14 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 960 | mg/kg | 5 |

ENSECO—CRL/Ventura

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173234
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/13/89, 1700
Method: Composite

I.D.: CS-9 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 210 mg/kg | | 1 |
| Nickel | EPA 7520 | 41 mg/kg | | 1 |
| Copper | EPA 7210 | 74 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 90 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 1300 mg/kg | | 5 |

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173235
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, ****
Method: Composite

I.D.: MW-5 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 220 | mg/kg | 1 |
| Nickel | EPA 7520 | 52 | mg/kg | 1 |
| Copper | EPA 7210 | 31 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 19 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 330 | mg/kg | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173236
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, ****
Method: Composite

I.D.: MW-6 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 49 | mg/kg | 1 |
| Nickel | EPA 7520 | 50 | mg/kg | 1 |
| Copper | EPA 7210 | 29 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 39 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 570 | mg/kg | 5 |

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173237
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: BH-1 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 100 | mg/kg | 1 |
| Nickel | EPA 7520 | 31 | mg/kg | 1 |
| Copper | EPA 7210 | 95 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 17 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 600 | mg/kg | 5 |

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Ventura, CA 93001
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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173238
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-2 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 550 mg/kg | | 1 |
| Nickel | EPA 7520 | 520 mg/kg | | 1 |
| Copper | EPA 7210 | 120 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 110 mg/kg | | 1 |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 190 mg/kg | | 5 |

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Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173239
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-3 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 230 mg/kg | | 1 |
| Nickel | EPA 7520 | 480 mg/kg | | 1 |
| Copper | EPA 7210 | 330 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 86 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 260 mg/kg | | 5 |

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173240
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-4 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 120 mg/kg | | 1 |
| Nickel | EPA 7520 | 140 mg/kg | | 1 |
| Copper | EPA 7210 | 22 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 33 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 2500 mg/kg | | 5 |

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Ventura, CA 93001
Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173241
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-11 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 3 | mg/kg | 1 |
| Nickel | EPA 7520 | 25 | mg/kg | 1 |
| Copper | EPA 7210 | 4.6 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 22 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 6 | mg/kg | 5 |

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11/15/89

Attn: Steven Nailor
 805/652/0219

Project: Candlestick Point
 Dept of Park & Rec.

Sample #: 9289173242
 Received: 10/16/89
 Type: Soil

Collector: Client
 Sampling Date & Time: **/**/**, ****
 Method: Composite

I.D.: BH-12 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 31 mg/kg | | 1 |
| Nickel | EPA 7520 | 35 mg/kg | | 1 |
| Copper | EPA 7210 | 13 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 42 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 110 mg/kg | | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173243
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: BH-13 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 280 mg/kg | | 1 |
| Nickel | EPA 7520 | 57 mg/kg | | 1 |
| Copper | EPA 7210 | 78 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 33 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 15 mg/kg | | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173244
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-14 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 100 mg/kg | | 1 |
| Nickel | EPA 7520 | 66 mg/kg | | 1 |
| Copper | EPA 7210 | 40 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 11 mg/kg | | 1 |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 850 mg/kg | | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173245
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: BH-15 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 21 mg/kg | | 1 |
| Nickel | EPA 7520 | 42 mg/kg | | 1 |
| Copper | EPA 7210 | 19 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 39 mg/kg | | 1 |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 2800 mg/kg | | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173246
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/**, ****
Method: Composite

I.D.: BH-16 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 35 | mg/kg | 1 |
| Nickel | EPA 7520 | 590 | mg/kg | 1 |
| Copper | EPA 7210 | 31 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 170 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 1100 | mg/kg | 5 |

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Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173247
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: BH-17 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 22 mg/kg | | 1 |
| Nickel | EPA 7520 | 130 mg/kg | | 1 |
| Copper | EPA 7210 | 700 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 62 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 44 mg/kg | | 5 |

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 Fax # (805) 652-0793

11/15/89

Attn: Steven Nailor
 805/652/0219

Project: Candlestick Point
 Dept of Park & Rec.

Sample #: 9289173248
 Received: 10/16/89
 Type: Soil

Collector: Client
 Sampling Date & Time: **/**/, ****
 Method: Composite

I.D.: BH-18 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 130 | mg/kg | 1 |
| Nickel | EPA 7520 | 52 | mg/kg | 1 |
| Copper | EPA 7210 | 31 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 40 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 300 | mg/kg | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173249
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: **/**/, ****
Method: Composite

I.D.: BH-19 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 130 | mg/kg | 1 |
| Nickel | EPA 7520 | 75 | mg/kg | 1 |
| Copper | EPA 7210 | 42 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 47 | mg/kg | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 140 | mg/kg | 5 |

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11/15/89

Attn: Steven Nailor
805/652/0219

Project: Candlestick Point
Dept of Park & Rec.

Sample #: 9289173250
Received: 10/16/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/11/89, 1840
Method: Composite

I.D.: BH-20 (Composite)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Lead, Total | EPA 7420 | 25 mg/kg | | 1 |
| Nickel | EPA 7520 | 1100 mg/kg | | 1 |
| Copper | EPA 7210 | 16 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 59 mg/kg | | 1 |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 56 mg/kg | | 5 |


Reviewed


Approved

* Higher detection limits due to other interfering compounds

** Higher detection limits due to sample matrix

Enseco - CRL / South Coast

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FAX: (714) 891-5917

November 6, 1989

ENSECO CRL VENTURA
2810 BUNSEN AVE., UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB

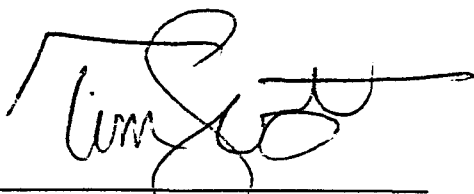
Analysis No.: G-8929208-001/032
Date Sampled: 13-OCT-1989
Date Sample Rec'd: 18-OCT-1989
Project: (92891732) HOLGUIN & ASSOCIATES, INC.

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8929208-001/032 shown above.

The samples were received by CRL in a chilled state, intact and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

Solid samples are reported on "as received" basis.



Reviewed



Approved

The Report Cover Letter is an integral part of this report.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-001
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-01) GW-1

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| - Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| -Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| -Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| -Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-002
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-05) GW-2

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
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 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-003
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-09) GW-3

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-004
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-13) GW-4

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-005
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-17) GW-5

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-006
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 26-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-21) GW-6

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
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 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-007
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 26-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-25) SW-1

Purgeable Organics, EPA 624

Units: ug/L

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-008
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-26) CS-1 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-009
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-27) CS-2 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 160. | ND | 10 |
| Carbon Disulfide | 52. | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | 46. | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-010
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-28) CS-3 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-011
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-29) CS-4 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
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 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-012
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-30) CS-5 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 22.* | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

*The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-013
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-31) CS-6 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 71. | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-014
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-32) CS-7 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-015
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-33) CS-8 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | 9. | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
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 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-016
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-34) CS-9 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 27.* | ND | 10 |
| Carbon Disulfide | 9. | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

*The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-017
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-35) MW-5 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | 10. | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | 69. | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-018
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-36) MW-6 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | 5. | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | 6. | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-019
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-37) BH-1 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10S |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-020
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-38) BH-2 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-021
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-39) BH-3 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-022
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-40) BH-4 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 13.* | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

*The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-023
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-41) BH-11 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-024
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-42) BH-12 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 18.* | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | 10. | ND | 5 |

*The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
2810 BUNSEN AVENUE, UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB

Analysis No.: G-8929208-025
Date Sampled: Not Supplied
Date Sample Rec'd: 18-OCT-1989
Date Analyzed: 25-OCT-1989
Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
Sample ID: (92891732-43) BH-13 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 15.* | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

*The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-026
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-44) BH-14 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-027
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-45) BH-15 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|---------|-------|-----------------|
| Chloromethane | ND | ND | 2500 |
| Bromomethane | ND | ND | 2500 |
| Vinyl Chloride | ND | ND | 2500 |
| Chloroethane | ND | ND | 2500 |
| Methylene Chloride | ND | ND | 1200 |
| Acetone | ND | ND | 2500 |
| Carbon Disulfide | ND | ND | 1200 |
| 1,1-Dichloroethene | ND | ND | 1200 |
| 1,1-Dichloroethane | ND | ND | 1200 |
| trans-1,2-Dichloroethene | ND | ND | 1200 |
| Chloroform | ND | ND | 1200 |
| 1,2-Dichloroethane | ND | ND | 1200 |
| 2-Butanone | ND | ND | 2500 |
| 1,1,1-Trichloroethane | ND | ND | 1200 |
| Carbon Tetrachloride | ND | ND | 1200 |
| Vinyl Acetate | ND | ND | 2500 |
| Bromodichloromethane | ND | ND | 1200 |
| 1,2-Dichloropropane | ND | ND | 1200 |
| trans-1,3-Dichloropropene | ND | ND | 1200 |
| Trichloroethene | ND | ND | 1200 |
| Dibromochloromethane | ND | ND | 1200 |
| 1,1,2-Trichloroethane | ND | ND | 1200 |
| Benzene | ND | ND | 1200 |
| cis-1,3-Dichloropropene | ND | ND | 1200 |
| 2-Chloroethylvinyl ether | ND | ND | 2500 |
| Bromoform | ND | ND | 1200 |
| 4-Methyl-2-pentanone | ND | ND | 2500 |
| 2-Hexanone | ND | ND | 2500 |
| Tetrachloroethene | ND | ND | 1200 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 1200 |
| Toluene | ND | ND | 1200 |
| Chlorobenzene | ND | ND | 1200 |
| Ethylbenzene | 3,700. | ND | 1200 |
| Styrene | ND | ND | 1200 |
| Xylenes, Total | 57,000. | ND | 1200 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-028
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-46) BH-16 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-029
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-47) BH-17 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
2810 BUNSEN AVENUE, UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB

Analysis No.: G-8929208-030
Date Sampled: Not Supplied
Date Sample Rec'd: 18-OCT-1989
Date Analyzed: 25-OCT-1989
Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
Sample ID: (92891732-48) BH-18 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Enseco - CRL / South Coast

7440 Lincoln Way • Garden Grove, CA 92641
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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-031
 Date Sampled: Not Supplied
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-49) BH-19 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | 9.* | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | 7. | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

The analytical results for Methylene Chloride should not be considered reliable unless the concentration in the sample exceeds five times the detection limit.

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-032
 Date Sampled: 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92891732-50) BH-20 COMPOSITE

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-008/032
 Date Sampled: 13-OCT-1989
 11-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Sample Type: SOLID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.

QA/QC Summary

| Date | Parameter (Method) | QC Type | Average Spike Recovery | Acceptable Range | Relative Percent Difference | Acceptable Range |
|-------------|-------------------------------|---------|------------------------|------------------|-----------------------------|------------------|
| 23-OCT-1989 | 1,1-DICHLOROETHENE (EPA 8240) | L | 92 | 54-134 | 0. | 25 |
| 25-OCT-1989 | 1,1-DICHLOROETHENE (EPA 8240) | L | 104 | 54-134 | 0. | 25 |
| 24-OCT-1989 | 1,1-DICHLOROETHENE (EPA 8240) | L | 101 | 54-134 | 2. | 25 |
| 25-OCT-1989 | TRICHLOROETHENE (EPA 8240) | L | 110 | 67-124 | 0. | 21 |
| 23-OCT-1989 | TRICHLOROETHENE (EPA 8240) | L | 110 | 67-124 | 1. | 21 |
| 24-OCT-1989 | TRICHLOROETHENE (EPA 8240) | L | 86 | 67-124 | 0. | 21 |
| 23-OCT-1989 | BENZENE (EPA 8240) | L | 101 | 62-126 | 0. | 24 |
| 25-OCT-1989 | BENZENE (EPA 8240) | L | 111 | 62-126 | 2. | 24 |
| 24-OCT-1989 | BENZENE (EPA 8240) | L | 105 | 62-126 | 2. | 24 |
| 25-OCT-1989 | TOLUENE (EPA 8240) | L | 104 | 66-126 | 0. | 22 |
| 23-OCT-1989 | TOLUENE (EPA 8240) | L | 96 | 66-126 | 2. | 22 |
| 24-OCT-1989 | TOLUENE (EPA 8240) | L | 101 | 66-126 | 2. | 22 |
| 23-OCT-1989 | CHLOROBENZENE (EPA 8240) | L | 108 | 67-124 | 0. | 22 |
| 25-OCT-1989 | CHLOROBENZENE (EPA 8240) | L | 113 | 67-124 | 2. | 22 |
| 24-OCT-1989 | CHLOROBENZENE (EPA 8240) | L | 109 | 67-124 | 2. | 22 |

M = Matrix Spike

L = Laboratory Control Sample Spike

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FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
2810 BUNSEN AVENUE, UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB

Analysis No.: G-8929208-001/007
Date Sampled: 13-OCT-1989
Date Sample Rec'd: 18-OCT-1989
Date Analyzed: 24-OCT-1989
26-OCT-1989

Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.

| Sample ID | Chromium (Total) mg/L EPA 200.7 | Copper mg/L EPA 200.7 | Lead mg/L EPA 200.7 | Nickel mg/L EPA 200.7 | Arsenic mg/L EPA 206.3 |
|--------------------|--|-----------------------------|---------------------------|-----------------------------|------------------------------|
| (92891732-01) GW-1 | 0.18 | 0.43 | 2.3 | 0.34 | 0.032 |
| (92891732-05) GW-2 | | ND(0.05) | | 0.09 | ND(0.005) |
| (92891732-09) GW-3 | 0.34 | 0.14 | | 0.46 | 0.016 |
| (92891732-13) GW-4 | 0.09 | 0.09 | 0.20 | 0.19 | 0.009 |
| (92891732-17) GW-5 | | ND(0.05) | | 0.08 | 0.007 |
| (92891732-21) GW-6 | 0.06 | 0.17 | | 0.29 | 0.009 |
| (92891732-25) SW-1 | | ND(0.05) | | 0.08 | 0.010 |
| Blank | ND(0.02) | ND(0.05) | ND(0.05) | ND(0.02) | ND(0.005) |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-001/007
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 24-OCT-1989
 23-OCT-1989

Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.

| Sample ID | Chromium (Total) mg/L | Lead mg/L | Mercury mg/L |
|--------------------|-----------------------------|--------------|-----------------|
| | | | |
| | EPA 218.2 | EPA 239.2 | EPA 245.1 |
| (92891732-01) GW-1 | | | 0.001 |
| (92891732-05) GW-2 | 0.013 | ND(0.005) | ND(0.001) |
| (92891732-09) GW-3 | | 0.020 | ND(0.001) |
| (92891732-13) GW-4 | | | ND(0.001) |
| (92891732-17) GW-5 | 0.019 | ND(0.005) | ND(0.001) |
| (92891732-21) GW-6 | | 0.020 | ND(0.001) |
| (92891732-25) SW-1 | 0.021 | ND(0.005) | ND(0.001) |
| Blank | ND(0.010) | ND(0.005) | ND(0.001) |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-001/007
 Date Sampled: 13-OCT-1989
 Date Sample Rec'd: 18-OCT-1989
 Date Analyzed: 25-OCT-1989
 Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.

| Sample ID | Mercury mg/L |
|--------------------|-----------------|
| | EPA 245.1 |
| (92891732-01) GW-1 | 0.001 |
| (92891732-05) GW-2 | ND(0.001) |
| (92891732-09) GW-3 | ND(0.001) |
| (92891732-13) GW-4 | ND(0.001) |
| (92891732-17) GW-5 | ND(0.001) |
| (92891732-21) GW-6 | ND(0.001) |
| (92891732-25) SW-1 | ND(0.001) |
| Blank | ND(0.001) |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8929208-001/007

Date Sampled: 13-OCT-1989

Date Sample Rec'd: 18-OCT-1989

Sample Type: LIQUID

Project: (92891732) HOLGUIN & ASSOCIATES, INC.

QA/QC Summary

| Date | Parameter (Method) | QC Type | Average Spike Recovery | Acceptable Range | Relative Percent Difference | Acceptable Range |
|-------------|------------------------------|---------|------------------------|------------------|-----------------------------|------------------|
| 24-OCT-1989 | CHROMIUM (EPA 200.7) | L | 112 | 69-148 | 1. | 30 |
| 24-OCT-1989 | COPPER (EPA 200.7) | L | 90 | 68-129 | 2. | 25 |
| 24-OCT-1989 | LEAD (EPA 200.7) | L | 110 | 65-144 | 1. | 25 |
| 24-OCT-1989 | NICKEL (EPA 200.7) | L | 109 | 65-146 | 1. | 25 |
| 26-OCT-1989 | ARSENIC (EPA 206.3) | L | 95 | 78-118 | 0. | 25 |
| 24-OCT-1989 | CHROMIUM (EPA 218.2) | L | 86 | 40-150 | 19. | 50 |
| 23-OCT-1989 | LEAD (EPA 239.2) | L | 117 | 40-150 | 4. | 50 |
| 25-OCT-1989 | MERCURY (EPA 245.1) | L | 108 | 41-137 | 5. | 37 |
| 25-OCT-1989 | 1,1-DICHLOROETHENE (EPA 624) | L | 101 | 58-118 | 10. | 12 |
| 25-OCT-1989 | TRICHLOROETHENE (EPA 624) | L | 86 | 69-121 | 9. | 16 |
| 25-OCT-1989 | BENZENE (EPA 624) | L | 104 | 63-120 | 8. | 12 |
| 25-OCT-1989 | TOLUENE (EPA 624) | L | 98 | 68-121 | 4. | 16 |
| 25-OCT-1989 | CHLOROBENZENE (EPA 624) | L | 106 | 66-123 | 8. | 13 |

M = Matrix Spike

L = Laboratory Control Sample Spike

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CHAIN OF CUSTODY/ANALYSIS REQUEST

| Client Name <i>Dept. Parks & Rec.</i> | | | Project Name <i>Candlestick Point</i> | | | Date Delivered <i>10-16-89</i> | | Analyses Requested | | | | | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) | | |
|---|--------------|--------------|--|--|--|-----------------------------------|-----------|--|-------------|---------------|---------------|--------------|--------------|---------------------|---------------------|-------|-------|--|--|--|
| Sampler's Name <i>E. Steven Naylor</i> | | | Sampler's Signature <i>E. Steven Naylor</i> | | | No. of Containers | | Lead 7421 | Nickel 7520 | Copper 7210 | Chromium 7190 | Arsenic 7060 | Mercury 7471 | 608 (Full) | Total Phenols 420.1 | 418.1 | G24 | SPECIAL INSTRUCTIONS (i.e. turnaround time, special detection limits, etc.) | | |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | | No. of Containers | Lead 7421 | Nickel 7520 | Copper 7210 | Chromium 7190 | Arsenic 7060 | Mercury 7471 | 608 (Full) | Total Phenols 420.1 | 418.1 | G24 | | | | |
| GW-1 | 10-13-89 | 15:14 | Water | 500 ml clear HNO ₃ | | 1 | X | X | X | X | X | X | | | | | | Extra | | |
| GW-1 | 10-13-89 | 15:15 | Water | " " H ₂ SO ₄ | | 1 | | | | | | | | X | X | | | | | |
| GW-1 | 10-13-89 | 15:15 | Water | 1 L clear H ₂ SO ₄ | | 1 | | | | | | | | | | X | | | | |
| GW-1 | 10-13-89 | 15:15 | Water | 1 l brown wide mouth | | 1 | | | | | | | | | | | | | | |
| GW-1 | 10-13-89 | 15:15 | Water | 1 l " narrow " | | 1 | | | | | | | X | | | | | | | |
| GW-1 | 10-13-89 | 15:15 | Water | VOA | | 2 | | | | | | | | | | X | | | | |
| GW-2 | 10-13-89 | 14:30 | Water | 500 ml clear HNO ₃ | | 1 | X | X | X | X | X | X | | | | | | | | |
| GW-2 | 10-13-89 | 14:30 | Water | " " H ₂ SO ₄ | | 1 | | | | | | | | X | | | | | | |
| GW-2 | 10-13-89 | 14:30 | Water | 1 l clear H ₂ SO ₄ | | 1 | | | | | | | | | | X | | | | |
| GW-2 | 10-13-89 | 14:30 | Water | 1 l brown wide mouth | | 1 | | | | | | | | | | | | | | |
| GW-2 | 10-13-89 | 14:30 | Water | 1 l brown narrow mouth | | 1 | | | | | | | X | | | | Extra | | | |
| GW-2 | 10-13-89 | 14:30 | Water | VOA | | 2 | | | | | | | | | | X | | | | |
| GW-3 | 10-13-89 | 14:50 | Water | 500 ml clear HNO ₃ | | 1 | X | X | X | X | X | X | | | | | | Extra | | |
| GW-3 | 10-13-89 | 14:50 | Water | " " " H ₂ SO ₄ | | 1 | | | | | | | | X | | | | | | |
| GW-3 | 10-13-89 | 14:50 | Water | 1 l clear H ₂ SO ₄ | | 1 | | | | | | | | | | X | | | | |
| GW-3 | 10-13-89 | 14:50 | Water | 1 l brown wide mouth | | 1 | | | | | | | | | | | | | | |
| Relinquished By: (Signature) <i>E. Steven Naylor</i> | | | Date/Time <i>10-16-89 1:40</i> | | Received By: (Signature) <i>[Signature]</i> | | | Laboratory Name & City ENSECO CRL | | | | | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | | Include Special Hazards Here: <div style="text-align: right;">(form updated 5/89)</div> | | | | | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | | | | | | | | | | | | | | |

CHAIN OF CUSTODY/ANALYSIS REQUEST

| Client Name Dept: Parks and Recreation | | | Project Name Candlestick Point | | | Date Delivered 10-16-89 | | Analyses Requested | | | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) | |
|--|--------------|--------------|---|--|---|----------------------------|-------------------------------------|--------------------|-------------|-------------|---------------|--------------|--------------|------------|------------------|--|-----|
| Sampler's Name Steve Richardson | | | Sampler's Signature Steve Richardson | | | | | Lead 7421 | Nickel 7523 | Copper 7210 | Chromium 7190 | Arsenic 7060 | Mercury 7471 | 608 (Full) | Total Phosphorus | 418.1 | 624 |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | No. of Containers | | | | | | | | | | | | |
| GW-3 | 10-13-89 | 1450 | Water | 1 l brown narrow mouth | 1 | | | | | | | | X | | | | |
| GW-3 | 10-13-89 | 1450 | " | VOA | 2 | | | | | | | | | | X | | |
| GW-4 | 10-12-89 | 4:15 | " | 500 ml clear HNO ₃ | 1 | X | X | X | X | X | X | | | | | | |
| GW-4 | " | " | " | " " " H ₂ SO ₄ | 1 | | | | | | | | X | | | | |
| GW-4 | " | " | " | 1 l clear H ₂ SO ₄ | 1 | | | | | | | | | X | | | |
| GW-4 | " | " | " | 1 l brown wide mouth | 1 | | | | | | | | | | | Extra | |
| GW-4 | " | " | " | 1 l brown narrow mouth | 1 | | | | | | | | X | | | | |
| GW-4 | " | " | " | VOA | 2 | | | | | | | | | | X | | |
| GW-5 | 10-13-89 | 1:40 | " | 500 ml clear HNO ₃ | 1 | X | X | X | X | X | X | | | | | | |
| GW-5 | " | 1:40 | " | " " " H ₂ SO ₄ | 1 | | | | | | | | X | | | | |
| GW-5 | " | " | " | 1 l clear H ₂ SO ₄ | 1 | | | | | | | | | X | | | |
| GW-5 | " | " | " | 1 l brown wide mouth | 1 | | | | | | | | | | | Extra | |
| GW-5 | " | " | " | 1 l brown narrow mouth | 1 | | | | | | | | X | | | | |
| GW-5 | " | " | " | VOA | 2 | | | | | | | | | | X | | |
| GW-6 | " | 1:15 | " | 1 l clear 500 ml clear HNO ₃ | 1 | X | X | X | X | X | X | | | | | | |
| GW-6 | " | " | " | " " " H ₂ SO ₄ | 1 | | | | | | | | X | | | | |
| Relinquished By: (Signature) Steve Richardson | | | Date/Time 10-16-89/1:40 | | Received By: (Signature) [Signature] | | Laboratory Name & City ENSEW-SRL | | | | | | | | | | |
| Relinquished By: (Signature) [Signature] | | | Date/Time [Signature] | | Received By: (Signature) [Signature] | | | | | | | | | | | | |
| Relinquished By: (Signature) [Signature] | | | Date/Time [Signature] | | Received By: (Signature) [Signature] | | Include Special Hazards Here: | | | | | | | | | | |

(form updated 5/89)

CHAIN OF CUSTODY/ANALYSIS REQUEST

[illegible]

CHAIN OF CUSTODY/ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | |
|---|--------------|--------------|--|--|--|--|-------------------|--------------------|---|--------|------|--------|------|--|------|------|--|
| Client Name Dep. Parks & Recreation | | | Project Name Candlestick Point | | | Date Delivered 10-16-89 | | Analyses Requested | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) | | | |
| Sampler's Name Steve Richardson | | | Sampler's Signature <i>Steve Richardson</i> | | | | | Lead | 7421 | Nickel | 7520 | Copper | 7210 | Chromium | 7190 | 8240 | 418.1 |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | | | No. of Containers | | | | | | | | | | |
| CS-1-1 | 10-11-89 | 5:45 | Soil | Composited into CS-1 | | | 2 | | | | | | | | | | SPECIAL INSTRUCTIONS (i.e. turnaround time, special detection limits, etc.) |
| CS-1-1 | 10-13-89 | 18:00 | Soil | | | | 2 | X | X | X | X | X | X | | | | |
| CS-2-1 | 10-11-89 | 5:55 | Soil | Composited into CS-2 | | | 2 | | | | | | | | | | |
| CS-2-1 | 10-13-89 | 18:30 | Soil | | | | 2 | X | X | X | X | X | X | | | | |
| CS-3-1 | 10-11-89 | 6:00 | Soil | Composite into CS-3 | | | 2 | | | | | | | | | | |
| CS-3-1 | 10-13-89 | 18:50 | Soil | | | | 2 | X | X | X | X | X | X | | | | |
| CS-4-1 | 10-11-89 | 6:15 | Soil | Composite into CS-4 | | | 3 | X | X | X | X | X | X | X | | | |
| CS-5-1 | 10-11-89 | 6:30 | Soil | Composite into CS-5 | | | 3 | X | X | X | X | X | X | X | | | |
| CS-6-1 | 10-11-89 | 6:45 | Soil | Composite into CS-6 | | | 3 | X | X | X | X | X | X | X | | | |
| CS-7-1 | 10-11-89 | 7:10 | Soil | Composite into CS-7 | | | 2 | X | X | X | X | X | X | X | | | |
| CS-8-1 | 10-13-89 | 17:20 | Soil | Composite into CS-8 | | | 4 | X | X | X | X | X | X | X | | | |
| CS-9-1 | 10-13-89 | 17:00 | Soil | Composite into CS-9 | | | 4 | X | X | X | X | X | X | X | | | |
| Relinquished By: (Signature) <i>Steve Richardson</i> | | | Date/Time 10-16-89/11:40 | | | Received By: (Signature) <i>[Signature]</i> | | | Laboratory Name & City ENSECO - LRL | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | | Received By: (Signature) <i>[Signature]</i> | | | Include Special Hazards Here: | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | | Received By: (Signature) <i>[Signature]</i> | | | | | | | | | | | |

CHAIN OF CUSTODY/ANALYSIS REQUEST

| Client Name Dept Parks & Recreation | | Project Name Candlestick Park | | Date Delivered 10-16-89 | Analyses Requested | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) | | | |
|---|--------------|--|-------------|--|--------------------|---|--------|------|--------|------|--|----------|------|------|
| Sampler's Name Steve Richardson | | Sampler's Signature <i>Steve Richardson</i> | | | Lead | 7421 | Nickel | 7520 | Copper | 7210 | | Chromium | 7190 | 8240 |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | No. of Containers | | | | | | | | | |
| MW-5-5 | 10-11-89 | 11:15 | Soil | } composite into MW-5 | 1 | | | | | | | | | |
| MW-5-9 | 10-11-89 | 11:30 | Soil | | 1 | X | X | X | X | X | X | | | |
| MW-6-4 | 10-11-89 | 1:45 | Soil | } composite into MW-6 | 1 | | | | | | | | | |
| MW-6-8 | 10-11-89 | 2:00 | Soil | | 1 | X | X | X | X | X | X | | | |
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| Relinquished By: (Signature) <i>Steve Richardson</i> | | Date/Time 10-16-89/11:40 | | Received By: (Signature) <i>[Signature]</i> | | Laboratory Name & City CRL, Ventura | | | | | | | | |
| Relinquished By: (Signature) | | Date/Time | | Received By: (Signature) | | | | | | | | | | |
| Relinquished By: (Signature) | | Date/Time | | Received By: (Signature) <i>[Signature]</i> | | Include Special Hazards Here: | | | | | | | | |

CHAIN OF CUSTODY/ANALYSIS REQUEST

| Client Name Dept. Parks & Recreation | | | | Project Name Candestik Park | | Date Delivered 10-16-89 | | Analyses Requested | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) | | | |
|---|-----------------|-----------------|----------------|---|--|--|------|---|--------|--------|--------|--------|----------|--|------|----------|---|
| Sampler's Name Steve Richardson | | | | Sampler's Signature <i>Steve Richardson</i> | | | | Lead | 7421 | Nickel | 7520 | Copper | 7210 | | | Chromium | 7190 |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | | No. of Containers | Lead | 7421 | Nickel | 7520 | Copper | 7210 | Chromium | 7190 | B240 | 418.1 | SPECIAL INSTRUCTIONS (i.e. turnaround time, special detection limits, etc.) |
| BH-1-1 | 10-10-89 | 9:30 | Soil | | | 1 | | | | | | | | | | | |
| BH-1-6 | 10-11-89 | 18:30 | Soil | Composite into BH-1 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-2-2 | 10-10-89 | 10:20 | Soil | | | 1 | | | | | | | | | | | |
| BH-2-5 | 10-11-89 | 18:10 | Soil | Composite into BH-2 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-3-1 | 10-10-89 | 11:05 | Soil | | | 1 | | | | | | | | | | | |
| BH-3-4 | 10-11-89 | 17:45 | Soil | Composite into BH-3 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-4-1 | 10-10-89 | 12:00 | Soil | | | 2 | | | | | | | | | | | |
| BH-4-4 | 10-11-89 | 18:00 | Soil | Composite into BH-4 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-11-1 | 10-11-89 | 8:10 | Soil | Composite into BH-11 | | 2 | X | X | X | X | X | X | X | X | X | | |
| BH-12-1 | 10-11-89 | 8:26 | Soil | | | 1 | | | | | | | | | | | |
| BH-12-4 | 10-11-89 | 8:40 | Soil | Composite into BH-12 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-13-1 | 10-11-89 | 10:05 | Soil | | | 2 | | | | | | | | | | | |
| BH-13-5 | 10-11-89 | 10:25 | Soil | Composite into BH-13 | | 1 | X | X | X | X | X | X | X | X | X | | |
| BH-14-1 | 10-11-89 | 11:10 | Soil | | | 2 | | | | | | | | | | | |
| BH-14-6 | 10-11-89 | 14:30 | Soil | Composite into BH-14 | | 1 | X | X | X | X | X | X | X | X | X | | |
| Relinquished By: (Signature) <i>Steve Richardson</i> | | | | Date/Time 10-16-89/11:40 | | Received By: (Signature) <i>[Signature]</i> | | Laboratory Name & City CRL, Ventura | | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | | | | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | Include Special Hazards Here: | | | | | | | | | |

(form updated 5/89)

CHAIN OF CUSTODY/ANALYSIS REQUEST

| Client Name Dept. Parks + Recreation | | | Project Name Candlestick Point | | Date Delivered 10-16-89 | Analyses Requested | | | | | | Send report to: Holguin & Associates, Inc. 73 North Palm Street Ventura, CA 93001 Attn: (Sampler's Name) |
|---|-----------------|-----------------|--|---|--|--------------------|--|----------------|------------------|------|-------|--|
| Sampler's Name Steve Richardson | | | Sampler's Signature <i>Steve Richardson</i> | | | Lead 7421 | Nickel 7520 | Copper 7710 | Chromium 7190 | B240 | 418.1 | |
| H & A Sample # | Date Sampled | Time Sampled | Sample Type | Other Information (e.g. sampling location, depth, soil boring or MW #, etc.) | No. of Containers | | | | | | | SPECIAL INSTRUCTIONS (i.e. turnaround time, special detection limits, etc.) |
| BH-15-1 | 10-11-89 | 13:00 | Soil | | 1 | | | | | | | |
| BH-15-6 | 10-11-89 | 17:00 | Soil | | 1 | | | | | | | |
| BH-15-10 | 10-11-89 | 17:20 | Soil | composite into BH-15 | 1 | X | X | X | X | X | X | |
| BH-16-1 | 10-11-89 | 13:25 | Soil | | 1 | | | | | | | |
| BH-16-6 | 10-11-89 | 17:10 | Soil | | composite into BH-16 | 1 | X | X | X | X | X | |
| BH-17-1 | 10-11-89 | 14:20 | Soil | | 1 | | | | | | | |
| BH-17-6 | 10-11-89 | 17:40 | Soil | | composite into BH-17 | 1 | X | X | X | X | X | |
| BH-18-1 | 10-11-89 | 3:40 | Soil | | 1 | | | | | | | |
| BH-18-6 | 10-11-89 | 3:50 | Soil | | composite into BH-18 | 1 | X | X | X | X | X | |
| BH-19-1 | 10-11-89 | 16:00 | Soil | | 1 | | | | | | | |
| BH-19-6 | 10-11-89 | 14:10 | Soil | | composite into BH-19 | 1 | X | X | X | X | X | |
| BH-20-1 | 10-11-89 | 18:39 | Soil | | 1 | | | | | | | |
| BH-20-6 | 10-11-89 | 18:40 | Soil | | composite into BH-20 | 1 | X | X | X | X | X | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Relinquished By: (Signature) <i>Steve Richardson</i> | | | Date/Time 10-16-89/11:40 | | Received By: (Signature) <i>[Signature]</i> | | Laboratory Name & City CRL, Ventura | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | | | | | | |
| Relinquished By: (Signature) <i>[Signature]</i> | | | Date/Time <i>[Signature]</i> | | Received By: (Signature) <i>[Signature]</i> | | Include Special Hazards Here: | | | | | |

(form updated 5/89)

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/17/89

Attn: Mark Fahan
805/652/0219

Project: Candlestick Point
Park and Recreation Dept.

Sample #: 9284172401
Received: 10/11/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/10/89, 1415
Method: Grab

I.D.: BH-5-3

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 72 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 130 mg/kg | | 1 |
| Nickel | EPA 7520 | 16 mg/kg | | 1 |
| Copper | EPA 7210 | 10 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 24 mg/kg | | 1 |

Sample #: 9284172402
Received: 10/11/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/10/89, 1500
Method: Grab

I.D.: BH-6-2

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | ND <5 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 160 mg/kg | | 1 |
| Nickel | EPA 7520 | 58 mg/kg | | 1 |
| Copper | EPA 7210 | 20 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 37 mg/kg | | 1 |

ENSECO—CRL/Ventura

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Sample #: 9284172403

Received: 10/11/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/10/89, 1609

Method: Grab

I.D.: BH-7-3,5 (Composite @ lab)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 440 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 1000 mg/kg | | 1 |
| Nickel | EPA 7520 | 160 mg/kg | | 1 |
| Copper | EPA 7210 | 4200 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 35 mg/kg | | 1 |

Sample #: 9284172404

Received: 10/11/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/10/89, ****

Method: Grab

I.D.: BH-8-1,5,8 (Composite @ lab)

| | | | | |
|--------------------------------|-----------|--------------|--|---|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 310 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 1100 mg/kg | | 1 |
| Nickel | EPA 7520 | 170 mg/kg | | 1 |
| Copper | EPA 7210 | 82 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 40 mg/kg | | 1 |

Sample #: 9284172405

Received: 10/11/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/10/89, ****

Method: Grab

I.D.: BH-9-1,5,8 (Composite @ lab)

| | | | | |
|--------------------------------|-----------|--------------|--|---|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 750 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 50 mg/kg | | 1 |
| Nickel | EPA 7520 | 340 mg/kg | | 1 |
| Copper | EPA 7210 | 31 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 52 mg/kg | | 1 |

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Sample #: 9284172406

Received: 10/11/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/10/89, ****

Method: Grab

I.D.: BH-10-1,5 (Composite @ lab)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|-------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 70 | mg/kg | 5 |
| Lead, Total | EPA 7420 | 64 | mg/kg | 1 |
| Nickel | EPA 7520 | 30 | mg/kg | 1 |
| Copper | EPA 7210 | 51 | mg/kg | 1 |
| Chromium, Total | EPA 7190 | 45 | mg/kg | 1 |

J. R. Rob
Reviewed

A. Coenraets
Approved

Enseco - CRL / South Coast

7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL
FAX: (714) 891-5917

November 3, 1989

ENSECO CRL VENTURA
2810 BUNSEN AVE., UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB

Analysis No.: G-8928618-001/010
Date Sampled: 10-OCT-1989
Date Sample Rec'd: 13-OCT-1989
Project: (92841721) HOLGUIN & ASSOCIATES, INC.

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8928618-001/010 shown above.

The samples were received by CRL in a chilled state, intact and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

Solid samples are reported on "as received" basis.



Reviewed



Approved

The Report Cover Letter is an integral part of this report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-001
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-01) BH-5-3

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 12. | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

Note: The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit

The Report Cover Letter is an integral part of this report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-002
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 22-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-02) BH-6-2

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

The Report Cover Letter is an integral part of this report.

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-003
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-03) BH-7-3,5

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

The Report Cover Letter is an integral part of this report.

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-004
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 22-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-04) BH-8-1,5,8

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | 6. | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-005
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-05) BH-9-1,5,8

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-006
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841724-06) BH-10-1,5

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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☐ 2325 Skyway Dr., Unit K, Santa Maria, CA 93455, (805) 922-2776
☐ 9537 Telstar Ave., Unit 118, El Monte, CA 91731, (818) 442-8400
☐ Mobile Labs, (800) ENSECO-8

CHAIN OF CUSTODY RECORD

Date 10-11-89 Page 1 of 2

Lab Number _____

| CLIENT <u>Candlestick Point - Parks + Rec Dept</u> | | | | PROJECT MANAGER <u>Mark Faham</u> | | | | ANALYSES <u>Lead</u> <u>Nickel</u> <u>Copper</u> <u>Chromium</u> <u>8240</u> <u>418.1</u> | | | | | | | | | | | | | |
|--|----------|-------|-----------------------------------|--------------------------------------|-----|-------------------------|-------------------|---|---|--|---|---|---|--------------------------|--|--|--|-------------------------|--|------------------|--|
| ADDRESS <u>Candlestick Point</u> | | | | PHONE NUMBER <u>805-483-5109</u> | | | | | | | | | | | | | | | | | |
| PROJECT NAME | | | | SITE CONTACT | | | | | | | | | | | | | | | | | |
| CONTRACT / PURCHASE ORDER / QUOTE # | | | | | | | | | | | | | | | | | | | | | |
| Sample No. / Identification | Date | Time | Lab Sample Number | SAMPLE TYPE | | | No. of Containers | | | | | | | Sample Condition/REMARKS | | | | | | | |
| | | | | LIQ. | AIR | SOLID | | | | | | | | | | | | | | | |
| 1 + BH-5-3 | 10/10/89 | 14:15 | | | | X | 3 | X | X | X | X | X | X | | | | | | | | |
| 2 + BH-6-2 | " | 15:00 | | | | X | 3 | X | X | X | X | X | X | | | | | | | | |
| 3 { + BH-7-3 | " | 16:09 | | | | X | 1 | X | X | X | X | X | X | } Composite | | | | | | | |
| + BH-7-5 | " | 16:10 | | | | X | 2 | X | X | X | X | X | X | | | | | | | | |
| + BH-8-1 | " | 18:00 | | | | X | 2 | X | X | X | X | X | X | } Composite | | | | | | | |
| 4 { + BH-8-5 | " | 17:00 | | | | X | 1 | | | | | | | | | | | | | | |
| + BH-8-8 | " | 17:25 | | | | X | 1 | | | | | | | | | | | | | | |
| + BH-9-1 | " | 17:30 | | | | X | 1 | X | X | X | X | X | X | } Composite | | | | | | | |
| 5 { + BH-9-5 | " | 17:50 | | | | X | 1 | | | | | | | | | | | | | | |
| + BH-9-8 | " | 17:50 | | | | X | 1 | | | | | | | | | | | | | | |
| SAMPLERS: (Signature) <u>Mark Faham</u> | | | Received by: (Signature) _____ | | | Date <u>10/11/89</u> | | Time <u>4:54</u> | | The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Enseco Terms and Conditions, unless a contract or purchase order has been executed and is cited above. | | | | | | | | | | | |
| Relinquished by: (Signature) _____ | | | Received by: (Signature) _____ | | | Date | | Time | | | | | | | | | | | | | |
| Relinquished by: (Signature) <u>Mark Faham</u> | | | Date | | | Time | | Received for Laboratory by: <u>John Rod</u> | | | | | | | | Date <u>10/11/89</u> | | RECEIVED <u>1710</u> | | Date ACCEPTED | |
| Method of Shipment: <u>Hand Delivered</u> | | | | | | | | | | | | | | | | SAMPLE DISPOSITION: 1. Storage time requested: _____ days (Samples will be stored for 30 days without additional charges; thereafter storage charges will be billed at the published rates.) 2. Sample to be returned to client: Y N (Enseco will dispose of unreturned samples at no extra charge. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.) | | | | | |
| Special Instructions: | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |



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☐ Mobile Labs, (800) ENSECO-8

Date 10-11-89 Page 2 of 2

Lab Number _____

| CLIENT <u>State of Calif. Parks + Rec.</u> | | | | PROJECT MANAGER <u>Mark Fahan</u> | | | | ANALYSES <div>Lead Nickel Copper Chromium 8240 418.1</div> | | | | | | | |
|---|----------|-------|-------------------|--------------------------------------|------|--|-------------------|--|----------------------|--|---|---|---|--------------------------|--|
| ADDRESS <u>San Francisco</u> | | | | PHONE NUMBER <u>805-682-0219</u> | | | | | | | | | | | |
| PROJECT NAME <u>Candlestick Point</u> | | | | SITE CONTACT | | | | | | | | | | | |
| CONTRACT / PURCHASE ORDER / QUOTE # | | | | | | | | | | | | | | | |
| Sample No. / Identification | Date | Time | Lab Sample Number | SAMPLE TYPE | | | No. of Containers | | | | | | | Sample Condition/REMARKS | |
| | | | | LIQ. | AIR | SOLID | | | | | | | | | |
| BH-10-1 | 10/10/89 | 17:30 | 1 | | | X | 1 | X | X | X | X | X | X | Composite | |
| BH-10-5 | " | 11:30 | | | | X | 1 | X | X | X | X | X | X | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| SAMPLERS: (Signature) <u>Mark Fahan</u> | | | | Received by: (Signature) _____ | | | | Date <u>10/11/89</u> | Time <u>17:00</u> | The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Enseco Terms and Conditions, unless a contract or purchase order has been executed and is cited above. | | | | | |
| Relinquished by: (Signature) _____ | | | | Received by: (Signature) _____ | | | | Date | Time | | | | | | |
| Relinquished by: (Signature) <u>Mark Fahan</u> | | | | Date | Time | Received for Laboratory by: <u>John Rod</u> | | Date | RECEIVED | | | | | | |
| Method of Shipment: <u>Hand Delivered</u> | | | | | | | | <u>10/11/89</u> | <u>1710</u> | | | | | | |
| Special Instructions: | | | | | | | | SAMPLE DISPOSITION: 1. Storage time requested: _____ days (Samples will be stored for 30 days without additional charges; thereafter storage charges will be billed at the published rates.) 2. Sample to be returned to client: Y N (Enseco will dispose of unreturned samples at no extra charge. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.) | | | | | | | |

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

Sample #: 9284174803

Received: 10/11/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/10/89, 1345

Method: Grab

I.D.: MW-2 (Composite of 2-4,2-9)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|--------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 9 mg/kg | | 5 |
| Lead, Total | EPA 7420 | ND <5 mg/kg | | 1 |
| Nickel | EPA 7520 | 70 mg/kg | | 1 |
| Copper | EPA 7210 | 43 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 89 mg/kg | | 1 |

Sample #: 9284174804

Received: 10/11/89

Type: Soil

Collector: Client


Sampling Date & Time: 10/10/89, 0850

Method: Grab

I.D.: MW-4-3

| | | | | |
|--------------------------------|-----------|--------------|--|---|
| EPA Method 624/8240 | | See Attached | | |
| Totl.Recov.Petrol.Hydrocarbons | EPA 418.1 | 57 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 10 mg/kg | | 1 |
| Nickel | EPA 7520 | 380 mg/kg | | 1 |
| Copper | EPA 7210 | 45 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 210 mg/kg | | 1 |


Reviewed


Approved

ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003

(805) 650-0546 • FAX: (805) 650-0756

Holguin & Associates, Inc.
73 N. Palm Street
Ventura, CA 93001
Fax # (805) 652-0793

11/17/89

Attn: Mark Fahan
805/652/0219

Project: Candlestick Point
Park and Recreation Dept.

Sample #: 9284174801
Received: 10/11/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/10/89, 0845
Method: Grab

I.D.: MW-1 (Composite of 1-4, 1-8)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 150 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 280 mg/kg | | 1 |
| Nickel | EPA 7520 | 110 mg/kg | | 1 |
| Copper | EPA 7210 | 60 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 48 mg/kg | | 1 |

Sample #: 9284174802
Received: 10/11/89
Type: Soil

Collector: Client
Sampling Date & Time: 10/10/89, 1510
Method: Grab

I.D.: MW-3 (Composite of 3-4, 3-10)

| CONSTITUENT | METHOD | RESULT | UNIT | MDL |
|-----------------------------------|-----------|--------------|------|-----|
| EPA Method 624/8240 | | See Attached | | |
| Totl. Recov. Petrol. Hydrocarbons | EPA 418.1 | 30 mg/kg | | 5 |
| Lead, Total | EPA 7420 | 30 mg/kg | | 1 |
| Nickel | EPA 7520 | 55 mg/kg | | 1 |
| Copper | EPA 7210 | 630 mg/kg | | 1 |
| Chromium, Total | EPA 7190 | 46 mg/kg | | 1 |

Enseco - CRL / South Coast

7440 Lincoln Way • Garden Grove, CA 92641
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FAX: (714) 891-5917

November 3, 1989

ENSECO CRL VENTURA
2810 BUNSEN AVE., UNIT A
VENTURA, CA 93003
ATTN: MR. LEO RAAB


Analysis No.: G-8928618-001/010
Date Sampled: 10-OCT-1989
Date Sample Rec'd: 13-OCT-1989
Project: (92841721) HOLGUIN & ASSOCIATES, INC.

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-8928618-001/010 shown above.

The samples were received by CRL in a chilled state, intact and with the chain-of-custody record attached.

Please note that ND() means not detected at the detection limit expressed within the parentheses.

Solid samples are reported on "as received" basis.



Reviewed



Approved

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-007
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841748-01) MW-1

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 23. | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

Note: The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit

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Enseco - CRL / South Coast

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-008
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841748-02) MW-3

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | 11. | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

Note: The analytical results for Acetone should not be considered reliable unless the concentration in the sample exceeds five times the detection limit

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-009
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841748-03) MW-2

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | ND | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | ND | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB

Analysis No.: G-8928618-010
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Date Analyzed: 24-OCT-1989
 Sample Type: SOLID

Project: (92841724) HOLGUIN & ASSOCIATES, INC.
 Sample ID: (92841748-04) MW-4-3

Purgeable Organics, EPA 8240

Units: ug/kg

| Parameter | Result | Blank | Detection Limit |
|---------------------------|--------|-------|-----------------|
| Chloromethane | ND | ND | 10 |
| Bromomethane | ND | ND | 10 |
| Vinyl Chloride | ND | ND | 10 |
| Chloroethane | ND | ND | 10 |
| Methylene Chloride | ND | ND | 5 |
| Acetone | 17. | ND | 10 |
| Carbon Disulfide | ND | ND | 5 |
| 1,1-Dichloroethene | ND | ND | 5 |
| 1,1-Dichloroethane | ND | ND | 5 |
| trans-1,2-Dichloroethene | ND | ND | 5 |
| Chloroform | ND | ND | 5 |
| 1,2-Dichloroethane | ND | ND | 5 |
| 2-Butanone | ND | ND | 10 |
| 1,1,1-Trichloroethane | ND | ND | 5 |
| Carbon Tetrachloride | ND | ND | 5 |
| Vinyl Acetate | ND | ND | 10 |
| Bromodichloromethane | ND | ND | 5 |
| 1,2-Dichloropropane | ND | ND | 5 |
| trans-1,3-Dichloropropene | ND | ND | 5 |
| Trichloroethene | ND | ND | 5 |
| Dibromochloromethane | ND | ND | 5 |
| 1,1,2-Trichloroethane | ND | ND | 5 |
| Benzene | ND | ND | 5 |
| cis-1,3-Dichloropropene | ND | ND | 5 |
| 2-Chloroethylvinyl ether | ND | ND | 10 |
| Bromoform | ND | ND | 5 |
| 4-Methyl-2-pentanone | ND | ND | 10 |
| 2-Hexanone | ND | ND | 10 |
| Tetrachloroethene | ND | ND | 5 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 5 |
| Toluene | 5. | ND | 5 |
| Chlorobenzene | ND | ND | 5 |
| Ethylbenzene | ND | ND | 5 |
| Styrene | ND | ND | 5 |
| Xylenes, Total | ND | ND | 5 |

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 FAX: (714) 891-5917

Laboratory Report

ENSECO CRL VENTURA
 2810 BUNSEN AVENUE, UNIT A
 VENTURA, CA 93003
 ATTN: MR. LEO RAAB
 Project: (92841724) HOLGUIN & ASSOCIATES, INC.

Analysis No.: G-8928618-001/010
 Date Sampled: 10-OCT-1989
 Date Sample Rec'd: 13-OCT-1989
 Sample Type: SOLID

QA/QC Summary

| Date | Parameter (Method) | QC Type | Average Spike Recovery | Acceptable Range | Relative Percent Difference | Acceptable Range |
|-------------|-------------------------------|---------|------------------------|------------------|-----------------------------|------------------|
| 20-OCT-1989 | 1,1-DICHLOROETHENE (EPA 8240) | L | 96 | 54-134 | 4. | 25 |
| 20-OCT-1989 | TRICHLOROETHENE (EPA 8240) | L | 113 | 67-124 | 2. | 21 |
| 20-OCT-1989 | BENZENE (EPA 8240) | L | 108 | 62-126 | 4. | 24 |
| 20-OCT-1989 | TOLUENE (EPA 8240) | L | 102 | 66-126 | 4. | 22 |
| 20-OCT-1989 | CHLOROBENZENE (EPA 8240) | L | 111 | 67-124 | 2. | 22 |

M = Matrix Spike

L = Laboratory Control Sample Spike

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CHAIN OF CUSTODY/ANALYSIS REQUEST

[illegible]



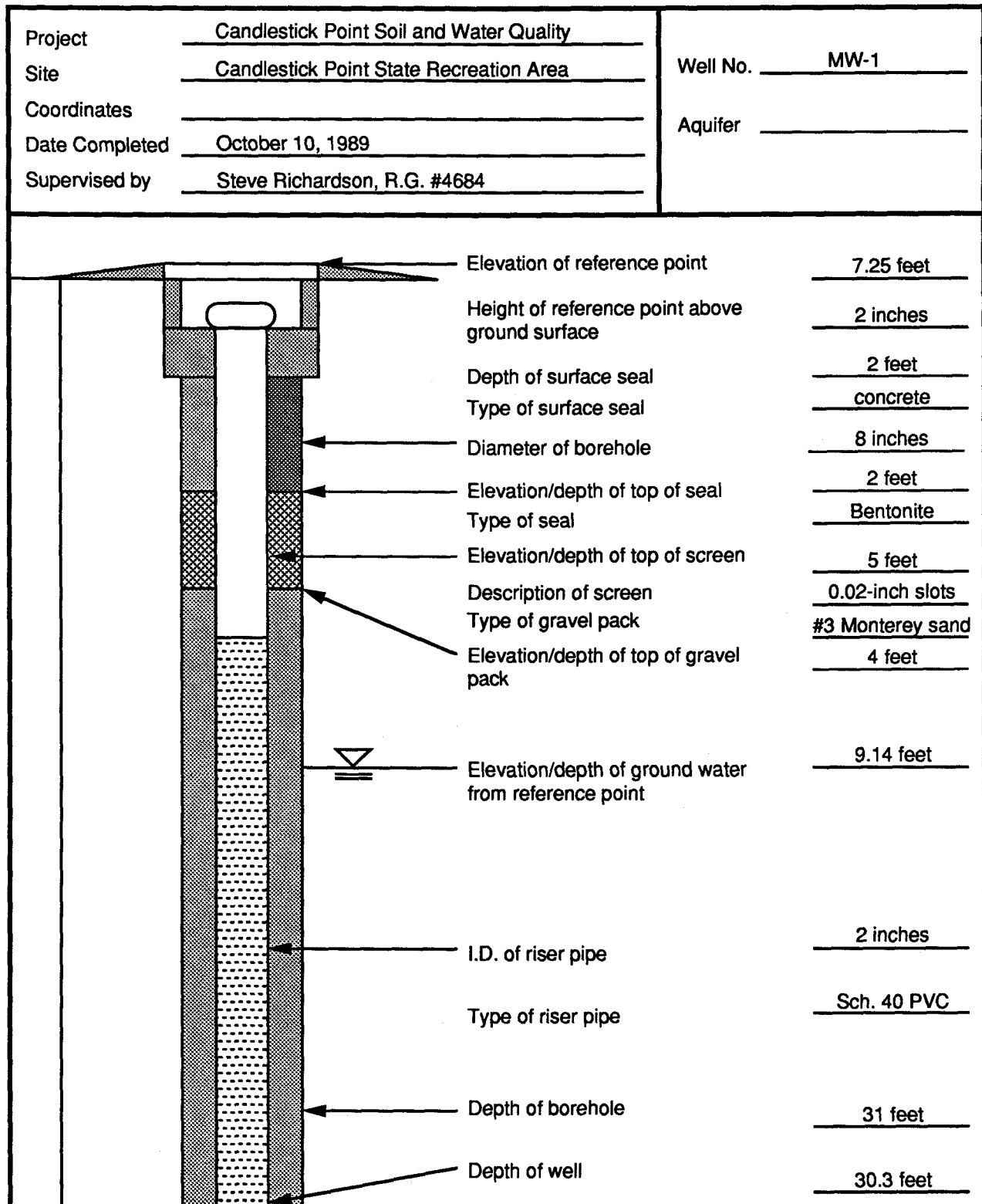
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FAHAN
& ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT CONSULTANTS

ATTACHMENT 5

GROUND WATER WELL CONSTRUCTION DETAILS

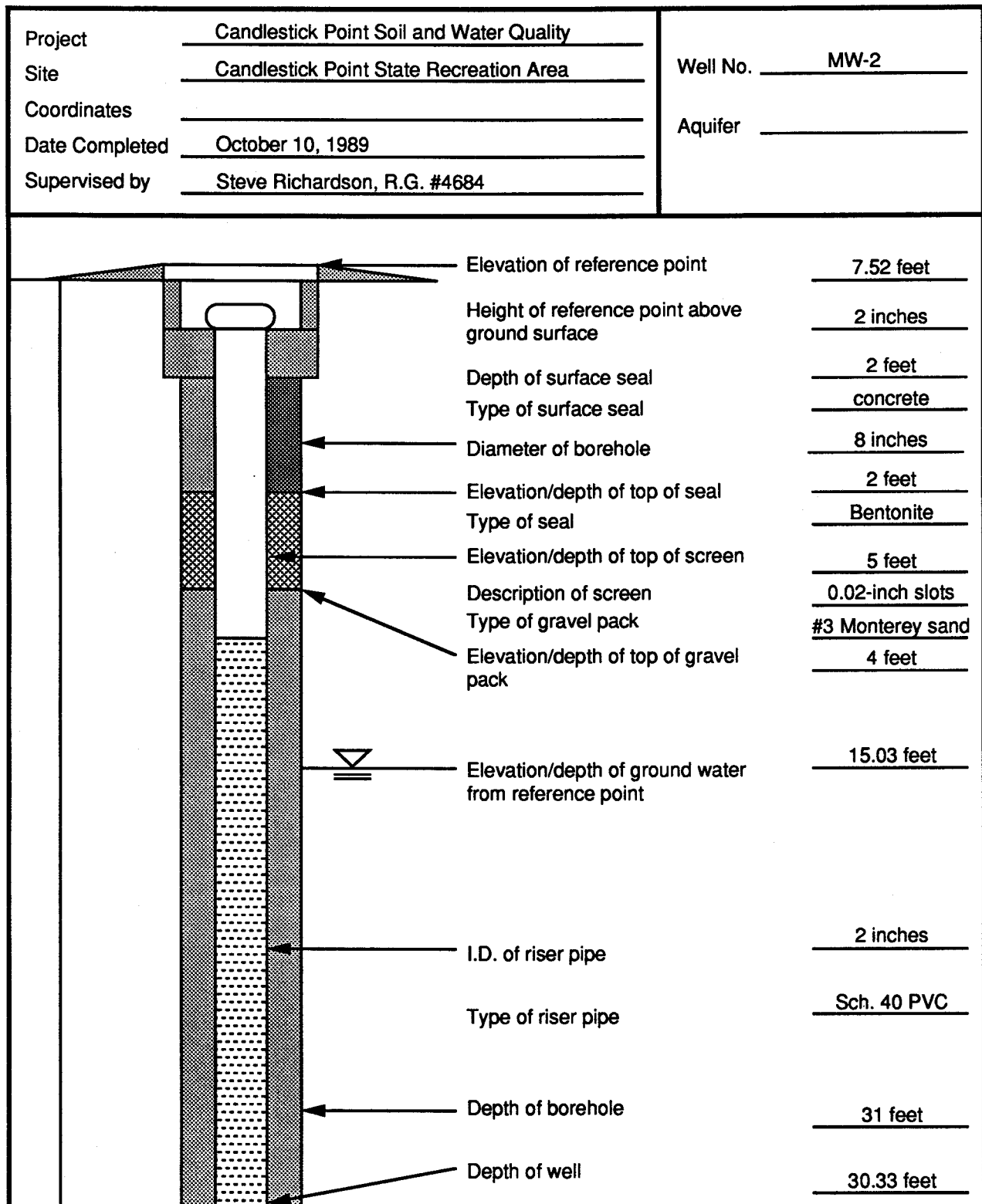
GROUND WATER WELL CONSTRUCTION DETAILS



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(805) 652-0219

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Ventura, California 93001

GROUND WATER WELL CONSTRUCTION DETAILS



HOLGUIN, FAHAN & ASSOCIATES, INC.
(805) 652-0219

73 North Palm Street
Ventura, California 93001

GROUND WATER WELL CONSTRUCTION DETAILS

| | | | |
|----------------|--|----------|------|
| Project | Candlestick Point Soil and Water Quality | Well No. | MW-3 |
| Site | Candlestick Point State Recreation Area | Aquifer | |
| Coordinates | | | |
| Date Completed | October 10, 1989 | | |
| Supervised by | Steve Richardson, R.G. #4684 | | |

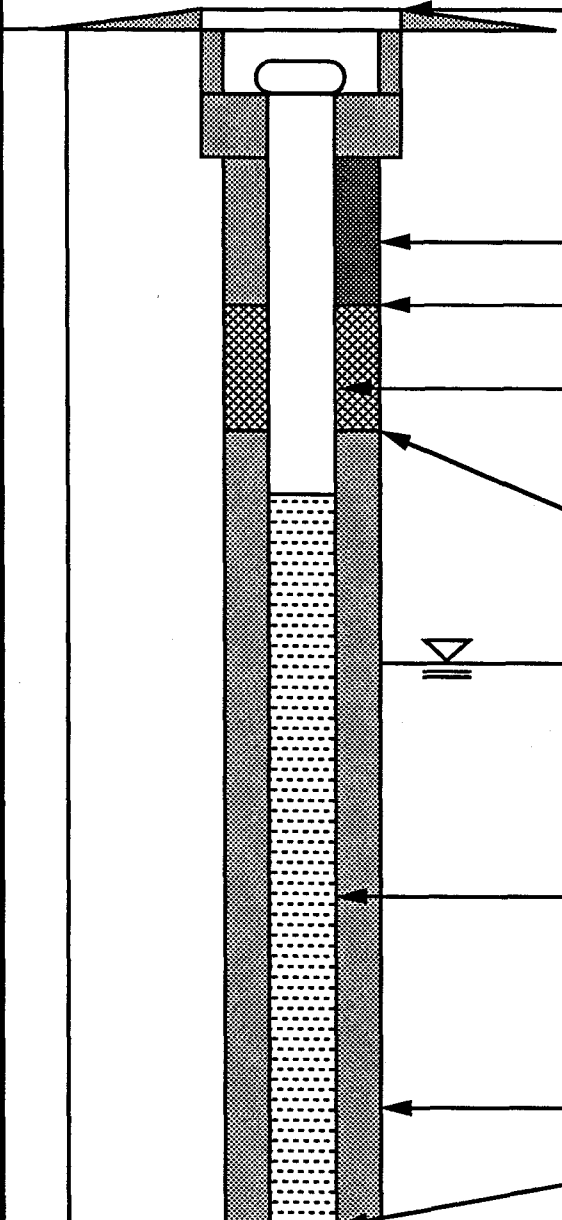
| | |
|--|------------------|
| Elevation of reference point | 7.93 feet |
| Height of reference point above ground surface | 2 inches |
| Depth of surface seal | 2 feet |
| Type of surface seal | concrete |
| Diameter of borehole | 8 inches |
| Elevation/depth of top of seal | 2 feet |
| Type of seal | Bentonite |
| Elevation/depth of top of screen | 5 feet |
| Description of screen | 0.02-inch slots |
| Type of gravel pack | #3 Monterey sand |
| Elevation/depth of top of gravel pack | 4 feet |
| Elevation/depth of ground water from reference point | 10.32 feet |
| I.D. of riser pipe | 2 inches |
| Type of riser pipe | Sch. 40 PVC |
| Depth of borehole | 31 feet |
| Depth of well | 27.29 feet |

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Ventura, California 93001

GROUND WATER WELL CONSTRUCTION DETAILS

| | | | |
|----------------|--|----------|------|
| Project | Candlestick Point Soil and Water Quality | Well No. | MW-4 |
| Site | Candlestick Point State Recreation Area | Aquifer | |
| Coordinates | | | |
| Date Completed | October 10, 1989 | | |
| Supervised by | Steve Richardson, R.G. #4684 | | |



| | |
|--|------------------|
| Elevation of reference point | 4.04 feet |
| Height of reference point above ground surface | 2 inches |
| Depth of surface seal | 1 foot |
| Type of surface seal | concrete |
| Diameter of borehole | 8 inches |
| Elevation/depth of top of seal | 1 foot |
| Type of seal | Bentonite |
| Elevation/depth of top of screen | 3 feet |
| Description of screen | 0.02-inch slots |
| Type of gravel pack | #3 Monterey sand |
| Elevation/depth of top of gravel pack | 2 feet |
| Elevation/depth of ground water from reference point | 4.66 feet |
| I.D. of riser pipe | 2 inches |
| Type of riser pipe | Sch. 40 PVC |
| Depth of borehole | 25 feet |
| Depth of well | 23 feet |

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73 North Palm Street
Ventura, California 93001

GROUND WATER WELL CONSTRUCTION DETAILS

| | | | |
|----------------|--|----------|------|
| Project | Candlestick Point Soil and Water Quality | Well No. | MW-5 |
| Site | Candlestick Point State Recreation Area | Aquifer | |
| Coordinates | | | |
| Date Completed | October 10, 1989 | | |
| Supervised by | Steve Richardson, R.G. #4684 | | |

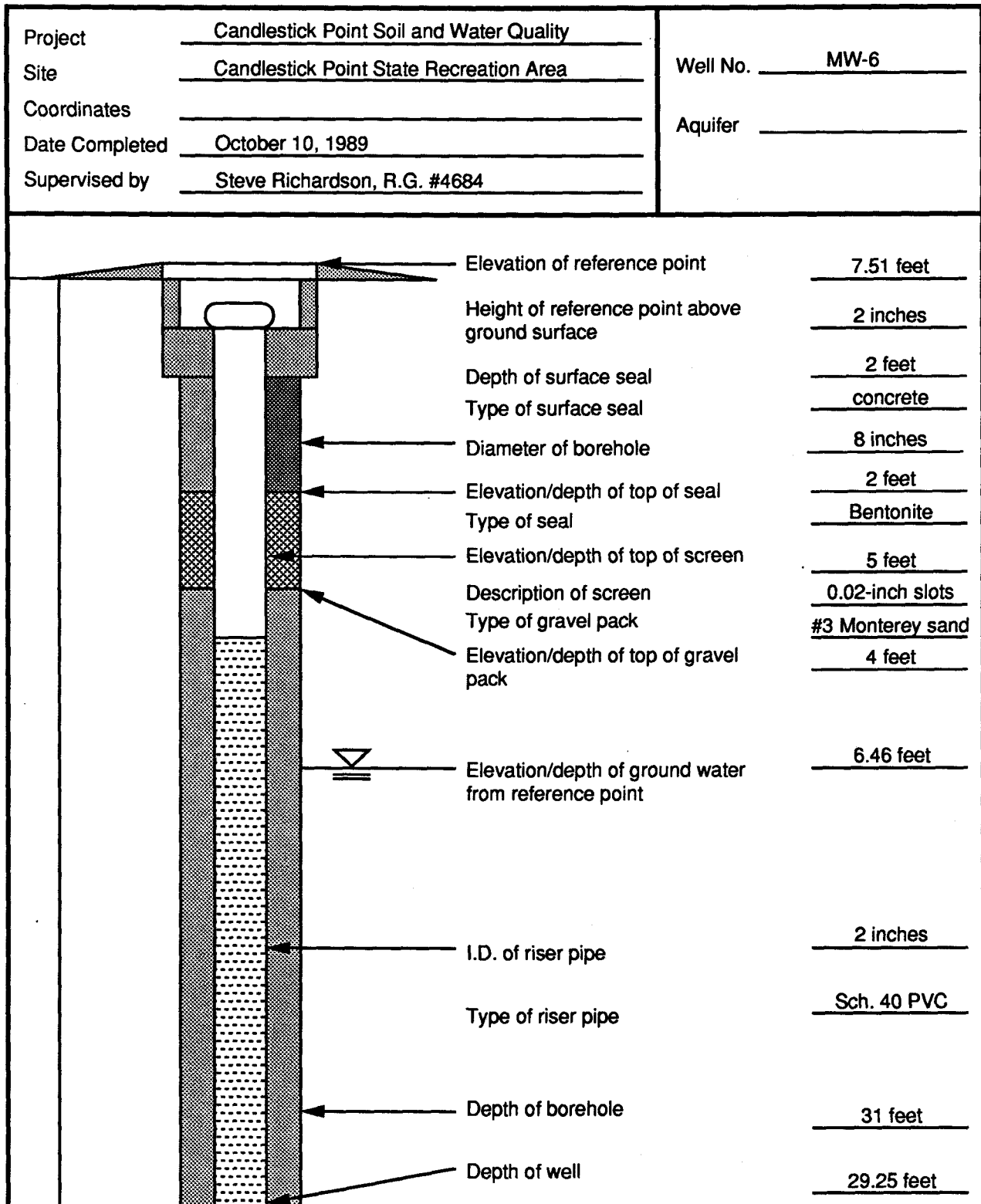
The diagram illustrates the vertical construction of a well. At the top, a reference point is shown at 7.51 feet. Below it, a 2-inch height of reference point above the ground surface is indicated. The surface seal is 2 feet deep and made of concrete. The borehole has a diameter of 8 inches. A seal is located 2 feet below the surface seal, made of Bentonite. The screen is located 5 feet below the seal, with 0.02-inch slots. The screen is surrounded by #3 Monterey sand gravel pack. The top of the gravel pack is 4 feet below the screen. The groundwater level is at 6.97 feet. The riser pipe has an I.D. of 2 inches and is made of Sch. 40 PVC. The borehole depth is 31 feet, and the total well depth is 29.92 feet.

| | |
|--|------------------|
| Elevation of reference point | 7.51 feet |
| Height of reference point above ground surface | 2 inches |
| Depth of surface seal | 2 feet |
| Type of surface seal | concrete |
| Diameter of borehole | 8 inches |
| Elevation/depth of top of seal | 2 feet |
| Type of seal | Bentonite |
| Elevation/depth of top of screen | 5 feet |
| Description of screen | 0.02-inch slots |
| Type of gravel pack | #3 Monterey sand |
| Elevation/depth of top of gravel pack | 4 feet |
| Elevation/depth of ground water from reference point | 6.97 feet |
| I.D. of riser pipe | 2 inches |
| Type of riser pipe | Sch. 40 PVC |
| Depth of borehole | 31 feet |
| Depth of well | 29.92 feet |

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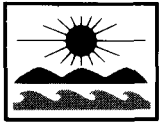
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GROUND WATER WELL CONSTRUCTION DETAILS



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HOLGUIN,
FAHAN
& ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT CONSULTANTS

ATTACHMENT 6
WATER SAMPLE LOGS

WATER SAMPLE LOG

PROJECT NO. California Department of Parks and Recreation DATE October 13, 1989

PROJECT NAME Candlestick Point

SAMPLE LOCATION MW-1

WEATHER CONDITIONS Clear, warm, windy

OBSERVATIONS/COMMENTS _____

**QUALITY
ASSURANCE**

SAMPLING METHOD Teflon™ bailer

METHOD TO MEASURE WATER LEVEL TLC

PUMP LINES OR BAILER ROPES WERE NEW OR CLEANED? New

METHOD OF CLEANING BAILER/PUMP EPA Protocol

pH METER NO. Orion SA250 CALIBRATED YES, 4.01 & 7.00 pH

SPECIFIC CONDUCTANCE METER NO. YSI-3000 CALIBRATED YSI 3167 (1.000) - 0.960

COMMENTS Total depth = 30' 3.7" YSI 3168 (9.987) - 7.90

pH meter not functioning properly, E1 error message

**SAMPLING
MEASUREMENTS**

WATER LEVEL (BELOW MP) AT START 8' 6.2" END 8' 7.3"

WELL DEPTH

| Time | Discharge (Gallons) | pH | Temp. (°C) | Specific Conductance umhos/cm | | Color | Odor | Turbidity |
|------|------------------------|----|---------------|----------------------------------|--------|-------|------|-----------|
| | | | | Field | @ 25°C | | | |
| 1:00 | 0 | - | 20.3 | 5.51 | 6.06 | grey | none | none |
| 1:15 | 5 | - | 18.7 | 5.96 | 6.77 | grey | none | some |
| 1:18 | 10 | - | 18.9 | 5.38 | 6.17 | grey | none | some |
| 1:20 | 15 | - | 18.9 | 5.37 | 6.05 | grey | none | some |
| 1:23 | 20 | - | 18.9 | 5.75 | 6.50 | grey | none | some |
| 1:25 | 25 | - | 18.7 | 5.73 | 6.48 | grey | none | some |
| | | | | | | | | |
| | | | | | | | | |

TOTAL DISCHARGE 25 CASING VOLUMES REMOVED 6.5

METHOD OF DISPOSAL OF DISCHARGED WATER Stored on site in 55-gallon DOT drums

NUMBER AND SIZE OF SAMPLE CONTAINERS FILLED Two 500-milliliter vials, three one-liter vials, and two VOA vials

COLLECTED BY Randall Ellis

HOLGUIN, FAHAN & ASSOCIATES, INC.

73 No. Palm Street
Ventura, CA 93001 / (805) 652-0219

WATER SAMPLE LOG

PROJECT NO California Department of Parks and Recreation DATE October 13, 1989

PROJECT NAME Candlestick Point

SAMPLE LOCATION MW-2

WEATHER CONDITIONS Clear, cool, windy

OBSERVATIONS/COMMENTS _____

QUALITY ASSURANCE

SAMPLING METHOD Teflon™ bailer

METHOD TO MEASURE WATER LEVEL TLC

PUMP LINES OR BAILER ROPES WERE NEW OR CLEANED? New

METHOD OF CLEANING BAILER/PUMP EPA Protocol

pH METER NO. Orion SA250 CALIBRATED YES, 4.01 & 7.00 pH

SPECIFIC CONDUCTANCE METER NO. YSI-3000 CALIBRATED YSI 3167 (1.000) - 0.960

COMMENTS Total depth = 30' 4" YSI 3168 (9.987) - 7.90

Well pumped dry at 15 gallons discharge

SAMPLING MEASUREMENTS

WATER LEVEL (BELOW MP) AT START 13' 3.7" END 15' 1.8"

WELL DEPTH

| Time | Discharge (Gallons) | pH | Temp. (°C) | Specific Conductance umhos/cm | | Color | Odor | Turbidity |
|-------|------------------------|------|---------------|----------------------------------|--------|-------------|------|-----------|
| | | | | Field | @ 25°C | | | |
| 11:14 | 0 | 6.62 | 17.2 | 17.04 | 19.80 | clear | none | none |
| 11:19 | 5 | 6.67 | 16.7 | 19.69 | >20 | light brown | none | slight |
| 11:22 | 10 | 6.85 | 16.9 | 19.98 | >20 | light brown | none | slight |
| 11:25 | 15 | 7.02 | 17.2 | >20 | >20 | light brown | none | slight |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

TOTAL DISCHARGE 15 gallons CASING VOLUMES REMOVED 5.5

METHOD OF DISPOSAL OF DISCHARGED WATER Stored on site in 55-gallon DOT drums

NUMBER AND SIZE OF SAMPLE CONTAINERS FILLED Two 500-milliliter vials, three one-liter vials, and two VOA vials

COLLECTED BY Randall Ellis

HOLGUIN, FAHAN & ASSOCIATES, INC.

73 No. Palm Street
Ventura, CA 93001 / (805) 652-0219

WATER SAMPLE LOG

PROJECT NO. California Department of Parks and Recreation DATE October 13, 1989

PROJECT NAME Candlestick Point

SAMPLE LOCATION MW-3

WEATHER CONDITIONS Clear, warm, windy

OBSERVATIONS/COMMENTS _____

| | |
|--------------------------|--|
| QUALITY ASSURANCE | SAMPLING METHOD <u>Teflon™ bailer</u> |
| | METHOD TO MEASURE WATER LEVEL <u>TLC</u> |

PUMP LINES OR BAILER ROPES WERE NEW OR CLEANED? New

METHOD OF CLEANING BAILER/PUMP EPA Protocol

pH METER NO. Orion SA250 CALIBRATED YES, 4.01 & 7.00 pH

SPECIFIC CONDUCTANCE METER NO. YSI-3000 CALIBRATED YSI 3167 (1.000) - 0.960

COMMENTS Total depth = 27' 3.5" YSI 3168 (9.987) - 7.90

| | | |
|------------------------------|--|--|
| SAMPLING MEASUREMENTS | WATER LEVEL (BELOW MP) AT START <u>10' 4"</u> END <u>9' 8.5"</u> | |
| | WELL DEPTH | |

| Time | Discharge (Gallons) | pH | Temp. (°C) | Specific Conductance umhos/cm | | Color | Odor | Turbidity |
|-------|------------------------|------|---------------|----------------------------------|--------|-------------|------|-----------|
| | | | | Field | @ 25°C | | | |
| 12:07 | 0 | 6.85 | 17.7 | 3.79 | 4.48 | clear | none | none |
| 12:12 | 5 | 6.81 | 18.1 | 3.89 | 4.68 | light brown | none | slight |
| 12:15 | 10 | 6.64 | 18.0 | 3.79 | 4.40 | light brown | none | slight |
| 12:18 | 15 | 6.62 | 18.4 | 3.71 | 4.25 | light brown | none | slight |
| 12:20 | 18 | | 18.0 | 3.61 | 4.19 | light brown | none | slight |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

TOTAL DISCHARGE 18 gallons CASING VOLUMES REMOVED 5.3

METHOD OF DISPOSAL OF DISCHARGED WATER Stored on site in 55-gallon DOT drums

NUMBER AND SIZE OF SAMPLE CONTAINERS FILLED Two 500-milliliter vials, three one-liter vials, and two VOA vials

| | |
|-----------------------------------|--|
| COLLECTED BY <u>Randall Ellis</u> | HOLGUIN, FAHAN & ASSOCIATES, INC. 73 No. Palm Street Ventura, CA 93001 / (805) 652-0219 |
|-----------------------------------|--|

WATER SAMPLE LOG

PROJECT NO. California Department of Parks and Recreation DATE October 12, 1989

PROJECT NAME Candlestick Point

SAMPLE LOCATION MW-4

WEATHER CONDITIONS Clear, warm, windy

OBSERVATIONS/COMMENTS no immiscible layer

QUALITY ASSURANCE

SAMPLING METHOD Teflon™ bailer

METHOD TO MEASURE WATER LEVEL TLC

PUMP LINES OR BAILER ROPES WERE NEW OR CLEANED? New

METHOD OF CLEANING BAILER/PUMP EPA Protocol

pH METER NO. Orion SA250 CALIBRATED YES, 4.01 & 7.00 pH

SPECIFIC CONDUCTANCE METER NO. YSI-3000 CALIBRATED YES

COMMENTS YSI 3167 (1.000) = 1.36" 1.18

YSI 3168 (9.987) = 9.89 at 25", 8.35 Field

SAMPLING MEASUREMENTS

WATER LEVEL (BELOW MP) AT START 4' 11.4" END 5' 1.1"

WELL DEPTH

| Time | Discharge (Gallons) | pH | Temp. (°C) | Specific Conductance umhos/cm | | Color | Odor | Turbidity |
|------|------------------------|------|---------------|----------------------------------|--------|-------|-------|-----------|
| | | | | Field | @ 25°C | | | |
| 3:30 | 0 | 7.15 | 18.59 | >20 | >20 | grey | sewer | none |
| 3:35 | 3 | 7.60 | 19.4 | >20 | >20 | grey | sewer | slight |
| 3:40 | 6 | 7.68 | 19.1 | >20 | >20 | grey | sewer | slight |
| 3:45 | 9 | 7.75 | 18.8 | >20 | >20 | grey | sewer | slight |
| 3:50 | 12 | 7.72 | 19.2 | >20 | >20 | grey | sewer | slight |
| 3:55 | 15 | 7.97 | 18.7 | >20 | >20 | grey | sewer | slight |
| 4:08 | 18 | 8.03 | 18.8 | >20 | >20 | grey | sewer | slight |
| 4:10 | 20 | 8.06 | 18.6 | >20 | >20 | grey | sewer | slight |

TOTAL DISCHARGE 20 gallons CASING VOLUMES REMOVED 5

METHOD OF DISPOSAL OF DISCHARGED WATER Stored on site in 55-gallon DOT drums

NUMBER AND SIZE OF SAMPLE CONTAINERS FILLED Two 500-milliliter vials, three one-liter vials, and two VOA vials

COLLECTED BY Randall Ellis

HOLGUIN, FAHAN & ASSOCIATES, INC.

73 No. Palm Street
Ventura, CA 93001 / (805) 652-0219

WATER SAMPLE LOG

PROJECT NO California Department of Parks and Recreation DATE October 13, 1989
 PROJECT NAME Candlestick Point
 SAMPLE LOCATION MW-5
 WEATHER CONDITIONS Clear, cool, windy
 OBSERVATIONS/COMMENTS _____

**QUALITY
ASSURANCE**

SAMPLING METHOD Teflon™ bailer
 METHOD TO MEASURE WATER LEVEL TLC

PUMP LINES OR BAILER ROPES WERE NEW OR CLEANED? New
 METHOD OF CLEANING BAILER/PUMP EPA Protocol
 pH METER NO. Orion SA250 CALIBRATED YES, 4.01 & 7.00 pH
 SPECIFIC CONDUCTANCE METER NO. YSI-3000 CALIBRATED YSI 3167 (1.000) - 0.960
 COMMENTS Total depth = 29' 11" YSI 3168 (9.987) - 7.90

**SAMPLING
MEASUREMENTS**

WATER LEVEL (BELOW MP) AT START 8' 9.5" END 8' 8.5"
 WELL DEPTH _____

| Time | Discharge (Gallons) | pH | Temp. (°C) | Specific Conductance umhos/cm | | Color | Odor | Turbidity |
|-------|------------------------|------|---------------|----------------------------------|--------|-------|-----------------|-----------|
| | | | | Field | @ 25°C | | | |
| 10:30 | 0 | 6.73 | 16.1 | >20 | >20 | grey | slight sewer | none |
| 10:33 | 3 | 6.84 | 17.2 | >20 | >20 | grey | strong sewer | slight |
| 10:35 | 8 | 6.83 | 18.4 | >20 | >20 | grey | strong sewer | slight |
| 10:37 | 13 | 6.86 | 17.6 | >20 | >20 | grey | strong sewer | slight |
| 10:40 | 18 | 6.86 | 18.1 | >20 | >20 | grey | strong sewer | slight |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

TOTAL DISCHARGE 18 gallons CASING VOLUMES REMOVED 4.5
 METHOD OF DISPOSAL OF DISCHARGED WATER Stored on site in 55-gallon DOT drums
 NUMBER AND SIZE OF SAMPLE CONTAINERS FILLED Two 500-milliliter vials, three one-liter vials, and
two VOA vials

COLLECTED BY Randall Ellis

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